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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

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CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. CA95-08

VEHICLE #1 - 1995 FORD CONTOUR GL (DUAL AIR BAG-EQUIPPED)

VEHICLE #2 - 1994 DODGE INTREPID (DUAL AIR BAG EQUIPPED)

LOCATION - STATE OF OHIO

CRASH DATE - 1995

Contract No. DTNH22-94-D-07058

Prepared for:

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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On-site investigation of a head-on crash involving two vehicles equipped with dual front air bag systems. 16. Abstract

Vehicle #1, (1995 Ford Contour GL) was traveling south in the left lane of a four lane undivided roadway when it crossed the double yellow centerline and struck the frontal plane of Vehicle #2 (1994 Dodge Intrepid) which was traveling north in the left lane. The damage and trajectory routines of the SMASH speed reconstruction program computed the impact speeds as 73 km/h (45 mph) for Vehicle #1 and 41 km/h (25 mph) for Vehicle #2 with delta Vs of 63 km/h (39 mph) for Vehicle #1 and 52 km/h (32 mph) for Vehicle #2.

Vehicle #1 was equipped with a dual front air bag supplemental restraint system (SRS) which deployed as the result of the crash. The 16 year old male driver, who was not restrained by the available manual lap and torso belt, moved forward and contacted the inflated front left air bag. He reportedly suffered a fracture of the foot. The right front occupant, a 17 year old male, was restrained by the manual lap and torso belt. He was reportedly admitted and treated for a fracture of the neck at a pediatric unit.

Vehicle #2 was also equipped with a dual front SRS which deployed during the crash sequence. The 41 year old female driver was restrained by the manual three point lap and torso belt. The driver's face contacted the inflated front left air bag. She sustained injuries related to the restraint belt, foot injuries from contact with the brake pedal and intruding toe pan, and a head injury from contact with the left rear occupant. She was transported via ambulance to a local trauma unit where she was admitted. The left rear occupant was a seven year old female who was not wearing the available three point manual lap and shoulder belt at the time of the crash. The girl moved forward and contacted the seat back support and the posterior aspect of the driver's head. She suffered a large laceration of the scalp, skull fracture, laceration of the dura and cerebral tissue below the fracture, and a subdural hematoma. She was transported to a pediatric unit where she arrived in an unconscious state.

The right front passenger in Vehicle #2, a thirteen year old male (son of the driver), was restrained by the three point manual lap and torso belt. He contacted the inflated front right air bag with his facial area and was struck on the left shoulder by the unrestrained right rear occupant. He sustained a displaced fracture of the left clavicle, contusions and abrasions of the hips and was transported to a local trauma unit where he was observed over night. The right rear 11 year old female occupant was not restrained by the restraint belt. She contacted the front seat back support and right front occupant. She sustained skull fractures, contusions of the brain, lung contusions, and abrasions and contusions of the left arm and shoulder. She was transported to a pediatric unit where she arrived in an unconscious state.

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CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. CA95-08

VEHICLE #1 - 1995 FORD CONTOUR GL (DUAL AIR BAG EQUIPPED)

VEHICLE #2 - 1994 DODGE INTREPID (DUAL AIR BAG EQUIPPED)

LOCATION - STATE OF OHIO

CRASH DATE - 1995

BACKGROUND

The Calspan Team was notified of this crash while conducting an on-site investigation in an unrelated SCI case. While interacting with the local police department in connection with the unrelated SCI case, the police provided on-scene photographs of a head-on impact between two air bag equipped vehicles where high speeds were suspected. The photographs showed major frontal damage to both vehicles and the air bag systems in both vehicles deployed. Preliminary injury information indicated that the front seat occupants in both vehicles benefitted from the air bags in mitigating injury severity. The Field Investigation Branch of the National Highway Traffic Safety Administration concurred with the initial assessment and initiated an on-site crash investigation. The vehicles were subsequently donated by the insurance company to the Transportation Safety Institute (TSI) in Collaboration to be used in research training programs.

SUMMARY

An on-site investigation was conducted into a two vehicle, head-on impact between a 1995 Ford Contour GL (Vehicle #1) and a 1994 Dodge Intrepid (Vehicle #2) which occurred February, 1995 in the evening hours. Vehicle #1 was traveling south in the left lane of a four lane undivided roadway when it crossed the double yellow centerline and struck the frontal plane of Vehicle #2 which was traveling north in the left lane.

Vehicle #1 was equipped with a dual front air bag supplemental restraint system (SRS) which deployed as the result of the crash. The 16 year old male driver who was not restrained by the available manual lap and torso belt moved forward and contacted the inflated front left air bag. He continued to move forward and contacted the steering assembly with his upper torso which resulted in the deformation of both the upper and lower portions of the steering wheel rim and the forward displacement of the steering column. He was transported to a local trauma center where he was reportedly treated for a fracture of the foot.

The right front occupant, a 17 year old male, was restrained by the manual lap and torso belt as evidenced by the separated stitching in the belt force limiter and contact evidence on the torso belt. As the result of the right instrument panel intrusion and the right front occupant's forward movement, his left knee contacted the glove compartment door surface in the area of the latch handle which resulted in the deformation of the metal backing plate. The passenger air bag deployed as designed and sustained a rip along the right upper rear surface as the result of snagging during the deployment sequence. The occupant was transported to a pediatric unit in a nearby city where he was reportedly admitted and treated for a fracture of the neck.

Vehicle #2 was also equipped with a dual front air bag supplemental restraint system which deployed during the crash sequence. The 41 year old female driver was restrained by the manual three point lap and torso belt. The driver's face contacted the inflated front left air bag as noted by a lipstick transfer on the face of the air bag. She sustained a contusion of the upper left shoulder area, abrasions across the chest, multiple rib fractures on the right side and contusions of the hips which were attributed to loading against the restraint belt during the crash.

Driver #2 was applying pressure to the brake pedal with her right foot at the time of crash in an attempt to avoid the crash. She suffered a Grade II open comminuted fracture of the right calcaneus and numerous fractures of the of the left metatarsal bones which were attributed to contact with the brake pedal and intruded toe pan. A 3.0 cm (1.2") laceration of the posterior aspect of Driver #2's head was attributed to contact by the unrestrained left rear occupant. She was transported via ambulance to a local trauma unit where she was admitted.

The left rear occupant in Vehicle #2 was a seven year old female (daughter of the driver) who was not wearing the available three point manual lap and shoulder belt at the time of the crash. The girl moved forward in response to vehicle braking and contacted the left front seat back support with her chest area and head restraint with her facial area. This resulted in the forward displacement of the seat back head restraint and the perforation of the rear surface of the seat back support by the subsequent rearward movement of the headrest height adjustment posts. Several broken teeth and an abrasion of the right cornea were attributed to this contact mechanism. The girl continued forward and struck the back of the driver's head which resulted in a large laceration of the scalp, skull fracture, laceration of the dura and cerebral tissue below the fracture, and a subdural hematoma. She was transported to a pediatric unit in a nearby city where she arrived in an unconscious state.

The right front passenger, a thirteen year old male (son of the driver), was restrained by the three point manual lap and torso belt. During the crash, his left knee contacted the glove compartment door surface and adjacent lower instrument panel as noted by a heavy white transfer on the instrument panel and slight indentation of the glove compartment door. His right knee contacted the right side of the glove compartment door as noted by a 5 cm (2") wide indentation and light colored transfer mark. He sustained contusions and abrasions of the hips which was attributed to loading against the lap belt. The boy contacted the inflated front right air bag with his facial area which resulted in a deformed nose with bleeding. This was consistent with the presence of heavy deposits of bodily fluids on the contact surface of the front right air bag. The boy sustained a displaced fracture of the left clavicle which was attributed to contact by the unrestrained eleven year old right rear female occupant during the crash sequence.

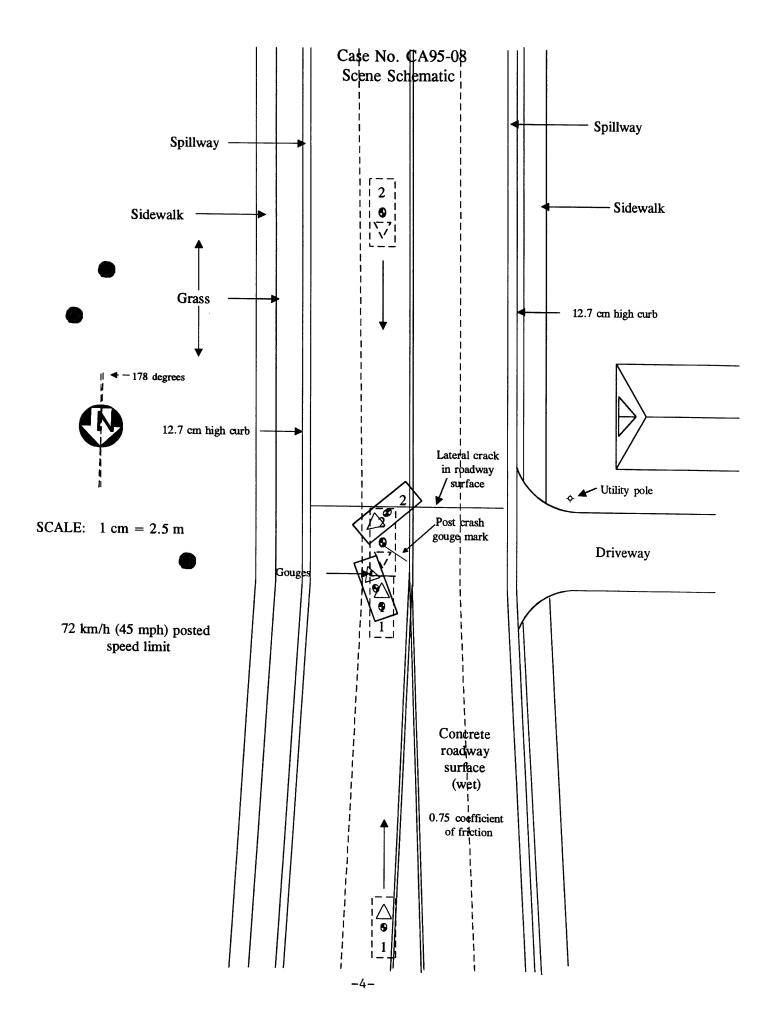
The 11 year old female (daughter of the driver) in the right rear occupant seating position was not restrained by the available three point manual lap and shoulder belt. She moved forward and contacted the right front seat back rest which resulted in bilateral lung contusions, and abrasions and contusions of the left arm and shoulder. As she continued forward, she contacted the right front occupant's left shoulder with her head. This resulted in fracture of the medial malleolar, skull fractures, and contusions of the brain. She was transported to a pediatric unit in a nearby city where she arrived in an unconscious state.

The damage pattern to the frontal plane of both vehicles represented a 100 percent overlap contact pattern in an axial collision configuration. Both vehicle damage pattern profiles exhibited an incremental downward shifting of the frame structures which were incorporated in the following Collision Deformation Classification (CDC) codes:

- Vehicle #1 52-FDEW-4 (12 o'clock PDOF + 40 incremental downward shift)
- Vehicle #2 52-FDEW-3 (12 o'clock PDOF + 40 incremental downward shift)

The damage and trajectory routines of the SMASH speed reconstruction program computed the impact speeds of 73 km/h (45 mph) for Vehicle #1 and 41 km/h (25 mph) for Vehicle #2 with delta Vs of 63 km/h (39 mph) for Vehicle #1 and 52 km/h (32 mph) for Vehicle #2.

Driver #1 and the right front occupant reportedly had met with friends at a nearby shopping mall prior to the crash. They traveled to a friend's house where they reportedly used an inhalant drug in an activity termed by the police as "huffing". The driver departed his friend's residence and was proceeding southbound when he crossed over the centerline and traveled head-on into Vehicle #2.



| CRASH DEMOGRAPHIC DATA | A | | | | |
|--|---|-----|--|--|--|
| Location: | Suburban | | | | |
| Area/Type: | Residential/rural | | | | |
| Investigating Police Agency: | Local police department | | | | |
| Accident Type: | Head-on crash | | | | |
| Air Bag Vehicle Driver Injury Severity: | Driver #1- AIS-2 (Moderate) RF Occupant - AIS-7 (Injured, unknown severity) Driver #2- AIS-3 (Serious) RF Occupant- AIS-2 (Moderate) | | | | |
| AMBIENCE | | | | | |
| Viewing Conditions: | No restrictions | | | | |
| Weather: | Light rain | | | | |
| Road Surface: | Wet | | | | |
| HIGHWAY | | | | | |
| Type: | County | | | | |
| Number Of Lanes: | Four lanes | | | | |
| Width: | 14.8 m (48.4') | | | | |
| Surface: | Concrete | | | | |
| Median: | None | | | | |
| Edge: | 12.7 cm (5.0") high barrier co | urb | | | |
| Vertical Alignment: | -0.7 percent southbound | | | | |
| Horizontal Alignment: | Straight | | | | |
| Estimated Coefficient Of Friction: | 0.75μ (dry), 0.50μ (wet) | | | | |
| Traffic Density: | Light | | | | |
| TRAFFIC CONTROLS | TRAFFIC CONTROLS | | | | |
| Signals: | None | | | | |
| Signs: | None | | | | |
| Markings: | Solid double yellow center line in good condition, white broken lane lines in good condition, no roadway edge lines | | | | |

| Speed Limit: | 72 km/h (45 mph) | | |
|---------------------|---|--|--|
| VEHICLE DESCRIPTION | Vehicle #1 Vehicle #2 | | |
| Description: | Ford Contour GL | Dodge Intrepid | |
| V.I.N.: | 1FALP6531SK (serial # omitted) | 1B3HD46T3RF (serial # omitted) | |
| Color: | Blue | Red | |
| Odometer: | 10,853 km (6,744 miles) | 8,724 km (5,421 miles) | |
| Engine: | 2.0 liter, 4 cylinder | 3.3 liter, 6 cylinder | |
| Transmission: | Automatic | Automatic | |
| Steering: | Power Steering | Power Steering | |
| Brakes: | Four wheel power assisted disc brakes | Power assisted front wheel disc and rear drum brakes | |
| Padding: | Soft edge steering wheel rim, sunvisor, seats, roof liner, center console, door panels and arm rests. | Soft edge steering wheel rim, sunvisor, seats, roof liner, door panels and arm rests | |
| Active Restraints: | Three point lap and shoulder belts in all four outboard seating positions, lap belt in the second row center seat position. | Three point lap and torso belts in the front and rear outboard seating positions, lap belt in the center front and rear seat positions | |
| Passive Restraints: | Driver side and passenger side air bags that deployed during the crash sequence | Driver side and passenger side air bags that deployed during the crash sequence | |
| Defects: | None | None | |
| Tow Status: | Towed due to damage | Towed due to damage | |

VEHICLE DAMAGE

Vehicle #1

Exterior - Vehicle #1

The frontal plane of the 1995 Ford Contour GL struck the frontal plane of the 1995 Dodge Intrepid in a direct head-on impact configuration. Direct contact damage was noted across the entire front bumper surface which measured 125.7 cm (49.5"). Crush values obtained are listed below:

| $C_1 = 31.5 \text{ cm } (12.4")$ | $C_2 = 47.0 \text{ cm } (18.5")$ | $C_3 = 64.0 \text{ cm } (25.2")$ |
|----------------------------------|----------------------------------|----------------------------------|
| $C_4 = 82.6 \text{ cm } (32.5")$ | $C_5 = 83.1 \text{ cm } (32.7")$ | $C_6 = 74.7 \text{ cm } (29.4")$ |

Exterior components damaged in the crash included: the front bumper fascia; bumper reinforcement bar; the grille; the headlight assembly; both front fenders; both front tires and front suspension; windshield; right upper A-pillar; the hood; the right front door; the radiator; and engine.

CDC:

52-FDEW-4 (a downward shift value of 40 was added to the 12 o'clock

PDOF)

Repair Cost:

Total Loss

Interior - Vehicle #1

Damage to the interior was associated with occupant contacts, the air bag deployment event, and vehicle component intrusions. The steering wheel rim was deformed forward a distance of 5.1 cm (2.0") along the top rim and 2.5 cm (1.0") forward along the lower rim. The steering column was designed with a slip bracket which was displaced 7.0 cm (2.75"). The steering wheel damage and column movement was attributed to contact by the driver's chest during the crash sequence.

Indentation marks were noted on the driver side knee bolster which were attributed to contact by the driver's knees. The right knee indentation measured 7.6 cm wide by 10.2 cm (4.0") high and was located 22.9 cm (9.0") left of the vehicle centerline. The left knee indentation measured 12.7 cm (5.0") wide by 7.6 cm (3.0") high and was located 46.4 cm (18.5") left of the vehicle centerline.

There were two light colored air bag generant residue deposits along the underside of the left instrument panel located on the eyebrow which were located on both sides of the steering column. These deposits measured 6.4 cm (2.5") wide and extended 8.9 cm (3.5") inward toward the instrument panel gauges. A circumferential linear abraded transfer mark was noted along the center instrument panel area which began 8.3 cm (3.3") left of the vehicle centerline below the environmental control knobs and ended on the eyebrow panel. This transfer mark was attributed to contact by the perimeter stitched seam of the front left air bag as the driver loaded and compressed the air bag during the crash sequence.

There was a fabric abrasion on the radio side panel located left of the air bag abraded transfer mark which was attributed to contact by the driver's right arm. It was located 17.8 cm (7.0") left of the vehicle centerline and 31.8 cm (12.5") down from the top of the instrument panel.

The glove compartment door in Vehicle #1 was deformed inward by the left knee of the right front occupant during the crash sequence. The indentation encompassed an area of $17.0 \text{ cm x } 22.0 \text{ cm } (6.7" \times 8.7")$ and was located 25.4 cm (10.0") right of the vehicle centerline. The operating handle for the glove compartment door exhibited blue fabric transfers which was associated with the occupant's pants. The fabric transfer measured $3.8 \text{ cm x } 3.8 \text{ cm } (1.5" \times 1.5")$.

The right front manual lap and torso restraint belt in Vehicle #1 showed indications that the right front occupant was using the restraint belt system at the time of the crash. There was a 6.4 cm (2.5") black transfer mark on the torso belt which was attributed to stress contact with the D-ring resulting from occupant loading during the crash sequence. The inboard section of the lap belt was comprised of a two belt energy management system attached to the buckle at one end and the floor at the other end. The stitching which joined the two belts was separated along the length of this section as the result of occupant loading during the crash.

The right front seat cushion exhibited two fabric abrasions which were attributed to loading by the passenger's buttocks during the crash sequence. The outboard abraded area measured 9.5 cm (3.8") laterally and 7.6 cm (3.0") longitudinally. It was located 10.2 cm (4.0") rearward from the leading edge of the seat cushion and 3.3 cm (1.3") from the centerline of the seat cushion. The inboard abraded area was less pronounced and measured 7.6 cm (3.0") longitudinally and 2.5 cm (1.0") laterally. This area was located 14.0 cm (5.5") rearward from the leading edge of the seat cushion and 6.4 mm (0.25") from the centerline of the seat cushion.

The driver seat had a similar abraded pattern on the seat cushion as the right front seat cushion. The outboard abraded area measured 6.4 cm (2.5") laterally and 8.3 cm (3.3") longitudinally. It was located 10.2 cm (4.0") rearward from the leading edge of the seat cushion and 3.5 cm (1.4") from the centerline of the seat cushion. The inboard abraded area was less pronounced and measured 11.4 cm (4.5") longitudinally and 6.4 cm (2.5") laterally. This area was located 10.2 cm (4.0") rearward from the leading edge of the seat cushion and 3.8 cm (1.5") from the centerline of the seat cushion.

The front right air bag sustained a tear in the upper right quadrant which measured 12.7 cm (5.0") in length. It was located 43.2 cm (17.0") below the upper air bag seam line with the lower end of the tear located 12.7 cm (5.0") inboard of the right side of the air bag. The tear was the result of snagging during the deployment phase.

There were several intruded areas as the result of the impact with Vehicle #2. The driver side toe pan was intruded 34.9 cm (13.8") longitudinally located at the plastic foot rest mat which was 40.6 cm (16.0") left of the vehicle centerline. The brake pedal was displaced rearward 19.8 cm (7.8"). The toe pan on the passenger side of the vehicle located 30.5 cm (12.0") right of the centerline was intruded longitudinally 55.9 cm (22.0"). The right upper corner of the instrument panel was displace 19.1 cm (7.5") longitudinally. The rear seat back support was displaced forward from cargo shift during the crash. The left rear seat back support was displaced 16.5 cm (6.5"), the center rear was displaced 15.2 cm (6.0"), and the right rear seat back support was displaced 8.9 cm (3.5").

Vehicle #2

Exterior - Vehicle #2

The frontal plane of the 1994 Dodge Intrepid struck the frontal plane of the 1995 Dodge Intrepid in a direct head-on impact configuration. Direct contact damage was noted across the entire front bumper surface which measured 132.1 cm (52.0"). Crush values obtained are listed below:

| $C_1 = 45.7 \text{ cm } (18.0")$ | $C_2 = 63.8 \text{ cm } (25.1")$ | $C_3 = 55.6 \text{ cm } (21.9")$ | |
|----------------------------------|----------------------------------|----------------------------------|--|
| $C_4 = 55.3 \text{ cm } (21.8")$ | $C_5 = 60.3 \text{ cm } (23.8")$ | $C_6 = 67.3 \text{ cm } (26.5")$ | |

Exterior components damaged in the crash included: the front bumper fascia; bumper reinforcement bar; the grille; the headlight assembly; both front fenders; both front tires and front suspension; windshield; the hood; the radiator; and engine.

CDC:

52-FDEW-3 (a downward shift value of 40 was added to the 12 o'clock

PDOF)

Repair Cost:

Total Loss

Interior - Vehicle #2

Damage to the interior was associated with occupant contacts, the air bag deployment event, and vehicle component intrusions. There was no deformation of the steering wheel rim even though the steering column was displaced forward by driver loading. The displacement measured at the shear capsules was 9.5 mm (0.375") at the left shear capsule and 25.4 mm (1.0") at the right shear capsule.

The front left air bag exhibited a light reddish color cosmetic transfer (i.e., lipstick) which was attributed to contact by driver's facial area. This transfer measured 4.4 cm (1.75 ") in length and 1.9 cm (0.75") in width. The transfer was located within the stitched center area of the air bag in the lower left quadrant. The angle of the transfer mark indicated the steering wheel was rotated clockwise approximately 40 degrees at the time of the impact. The clockwise rotation of the steering wheel was consistent with the driver's attempt to avoid the crash by steering to the right just prior to impact.

The three point manual lap and shoulder belt was worn correctly by the driver at the time of the crash. A 4.4 cm (1.75") black transfer mark was noted along the upper surface of the torso belt which was attributed to friction of the belt against the D-ring during the crash. A 4.4 cm (1.75") blue fabric artifact had the appearance of being woven into the webbing of the torso belt. This artifact was attributed to contact with the driver's clothing during the crash sequence.

An indentation mark and 6.4 cm (2.5 cm) long crack noted on the driver side knee bolster were attributed to contact by the driver's left knee and lower leg. Additionally, a reddish colored fabric transfer which measured 3.8 cm (1.5") laterally and 8.9 cm (3.5") vertically was located 45.7 cm (18.0") left of the vehicle centerline and 10.2 cm (4.0") above the bottom edge of the knee bolster was attributed to contact by the driver's left knee. A white colored transfer on the knee bolster adjacent to the right side of the steering column was attributed to contact by the driver's right knee. This contact measured 1.9 cm (0.75") in length and was located 25.4 cm (10.0") left of the vehicle centerline.

The right side of the brake pedal was deformed forward as the result of loading by the driver's right foot during the crash sequence. The driver sustained an open fracture of the right calcaneus which was attributed to this contact mechanism.

The vehicle interior sustained intrusions which involved the toe pan, seat back support, and instrument panel. The toe pan on the driver side adjacent to the foot rest pad was displaced rearward 19.6 cm (7.7") while the toe pan adjacent to the right side of the center console was displace 27.9 cm (11.0"). The front seat back supports were displaced forward an estimated 15.2 cm (6.0") for the driver side and 27.9 cm (11.0") for the right front. This displacement was attributed to loading by the respective unrestrained rear seat occupants. The center instrument panel along the lower edge adjacent to the center console was displaced rearward 3.5 cm (1.4").

The right front manual lap and torso restraint belt was worn by the right front occupant, a 13 year old male, at the time of the crash. There was a 15.2 cm (6.0") white tissue transfer on the torso belt which began 66.0 cm (26.0") from latch plate. This was attributed to contact by the left side of the right front occupant's neck/shoulder area.

The glove compartment door exhibited a heavy transfer and indentation which were attributed to contact by the knees of the right front occupant. The heavy transfer mark measured 10.2 cm (4.0") laterally and was located on the inboard surface of the glove compartment door, 10.2 cm (3.0") above the bottom edge of the instrument panel. This was attributed to contact by the boy's left knee. The indentation which measured 5.1 cm (2.0") laterally was located along the outboard area of the glove compartment door and 14.0 cm (5.5") above the bottom edge of the instrument panel. This attributed to contact by the right knee of the right front occupant during the crash.

The front right air bag exhibited several deposits of bodily fluid which were attributed to contact by the right front occupant after the crash sequence. He sustained a nose bleed during the crash which was transferred to the air bag. The back side of the air bag had several black vertically striated transfers which were attributed to contact with underside of the air bag module cover during the deployment sequence. There was no other damage noted to the air bag or air bag module cover.

The rear surface of the left front seat back support was deformed as the result of contact by the unrestrained 7 year old female left rear occupant. The top inboard rear portion of the head restraint was loaded by the left rear occupant as noted by a 12.7 cm x 7.6 cm (5.0" x 3.0") reddish brown transfer. As the top of the head restraint was displaced forward, the upper portion of the head restraint guide posts pivoted against the top of the seat back support resulting in the rearward movement of the lower portion of the guide posts. The combination of the head restraint rotation and subsequent contact by the child's upper body resulted in the protrusion of the head restraint guide posts through the seat fabric. The punctures in the seat back support were located 10.8 cm (4.25") below the top of the seat back support.

The front surface of the head restraint exhibited a 5.1 cm (2.0") diameter bodily fluid transfer which was attributed to the driver's head. It was located 6.4 cm (2.5") below the top of the head restraint and 5.1 cm (2.0") left of the inboard edge. Directly below the head restraint on the front surface of the seat back support was another bodily fluid artifact which was also associated with the lesion from the posterior aspect of the driver's head. This artifact was located 3.8 cm (1.5") below the top of the seat back support and 18.4 cm (7.25") left of the inboard seat back support edge.

The fabric on the back of the right front seat back support exhibited two linear abrasion marks which were attributed to contact by the unrestrained right rear occupant during the crash sequence. The left mark measured 2.5 cm (1.0") in length as was located 17.8 cm (7.0") below the top of the seat back support and 10.2 cm (4.0") left of the seat centerline. The second mark measured 1.3 cm (0.5") in length and was located 3.8 cm (1.5") below the top of the seat back support and originated at the centerline of the seat back support.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Both vehicles were equipped with dual front air bag systems which deployed during the crash. Given the longitudinal delta V values of 63 km/h (39 mph) for Vehicle #1 and 52 km/h (32 mph) for Vehicle #2, the effectiveness of the SRS was readily apparent in mitigating life threatening injuries to the front seat occupants.

Vehicle #1

The front left air bag in the Ford Contour (Vehicle #1) was designed with four tethers and two vent ports. The vent ports measured 3.8 cm (1.5") in diameter and were located 6.4 cm (2.5") apart at the top rear surface of the air bag. There was a 11.4 cm (4.5") long grease mark in the lower left quadrant of the air bag which attributed to post crash contact. The front surface of the air bag was constructed of a heavier rip stop gray weave fabric while the back surface was made of fine nylon mesh fabric. The diameter of the air bag measured 57.2 cm (22.5") and the diameter of the center stitched area measured 17.1 cm (6.75"). There was no contact evidence or damage noted to the air bag.

The front left air bag module cover opened in an "H" pattern with no contact damage noted to the flaps. Both flaps measured 10.8 cm (4.25") vertically and 19.1 cm (7.5") laterally. The thickness of the flaps measured 4.8 mm (0.19"). An SRS identification tag was located along the left side plate of the air bag module which read:



The front right air bag was nontethered and had a 3.8 cm (1.5") diameter vent port located along the upper inboard side of the air bag. The air bag measured 71.1 cm (28.0") laterally and 58.47 cm (23.0") longitudinally. There was a 12.7 cm (5.0") linear tear of the air bag fabric in the upper outboard quadrant of the air bag. It was located 43.2 cm (17.0") below the upper air bag seam line. The tear was attributed to snagging along the side structure of the air bag module cavity during the deployment sequence. There was no contact evidence noted to the surface of the air bag. The module cover was one piece where it rotated upward during the SRS deployment sequence. It measured 24.1 cm (9.5") vertically and 45.2 cm (17.8") laterally. There was no contact damage noted to the surface of the cover.

Vehicle #2

The front left air bag in the Dodge Intrepid (Vehicle #2) was designed with two tethers and no vent ports. The front surface of the air bag was constructed of a heavier rip stop gray weave fabric while the back surface was made of fine nylon mesh fabric. The air bag measured 65.5 cm (25.75") in diameter with a 16.5 cm (6.5") stitched center area. The air bag identification number was as follows:

The front left air bag exhibited a light reddish color cosmetic transfer (i.e., lipstick) which was attributed to contact by driver's facial area. This transfer measured 4.4 cm (1.75 ") in length and 1.9 cm (0.75") in width. The transfer was located within the stitched center area of the air bag in the lower left quadrant. The angle of the transfer mark indicated the steering wheel was rotated clockwise approximately 40 degrees at the time of the impact. The clockwise rotation of the steering wheel was consistent with the driver's attempt to avoid the crash by steering to the right just prior to impact.

The front left air bag module cover opened in an "H" pattern with no contact damage noted to the flaps. The upper flap measured 7.0 cm (2.75") vertically and the lower flap measured 8.3 cm (3.25") vertically. The common lateral tear seam edge between the upper and lower flap measured 16.5 cm (6.5") laterally.

The front right air bag was manufactured with one tether which was attached to the lower portion of the air bag and laterally spanned the face of the air bag. It was located 45.7 cm (18.0") below the inflator unit. There were no visible vent ports in the air bag. The air bag measured 53.3 cm (21.0") laterally and 68.6 cm (27.0") longitudinally.

The front right air bag exhibited several deposits of bodily fluid which were attributed to contact by the right front occupant after the crash sequence. He sustained a nose bleed during the crash which was transferred to the air bag. The back side of the air bag exhibited several black vertically oriented striated transfers which were attributed to contact with underside of the air bag module cover during the deployment sequence. There was no other damage noted to the air bag or air bag module cover.

The front right module cover was a one piece design which rotated upward during the SRS deployment sequence. It measured 14.6 cm (5.75") vertically and 34.9 cm (13.75") laterally. There was no contact damage noted to the surface of the cover. The cover thickness measured 11.1 mm (0.44").

VEHICLE VELOCITY ESTIMATES

The damage and trajectory routines of the SMASH speed reconstruction algorithm were utilized to compute the impact speed and delta V for both vehicles. The output values are shown in the following table:

| | Vehicle #1 | Vehicle #2 |
|----------------------|-----------------------------------|-----------------------------------|
| Impact Speed | 73 km/h (45 mph) | 41 km/h (25 mph) |
| Total delta V | V 63 km/h (39 mph) 52 km/h (32 m | |
| Longitudinal delta V | -63 km/h (-39 mph) | -52 km/h (-32 mph) |
| Lateral delta V | delta V 0 km/h (0 mph) 0 km | |
| Energy Dissipation | 208,798 joules (153,981 ft/lb) | 177,525 joules (130,918 ft/lb) |

COLLISION SEQUENCE

Pre-Crash

Driver #1 and the right front occupant reportedly had met with friends at a nearby shopping mall prior to the crash. They traveled to a friend's house where they reportedly used an inhalant drug in an activity termed by the police as "huffing". The driver departed his friend's residence and was proceeding southbound when he crossed over the centerline and traveled in the left northbound travel lane. The SMASH speed reconstruction algorithm computed his impact speed at 73 km/h (45 mph).

Driver #2 was returning home from religious education classes with her three children. The driver and the right front occupant, her thirteen year old son, were restrained by their respective three point lap and shoulder belt systems while the 7 year old and 11 year old rear seat occupants were unrestrained. The driver indicated that her children were sitting against their seat back supports in a relaxed and calm manner prior to the crash.

Vehicle #2 was traveling northbound in the left lane at a driver estimated speed of 72 km/h (45 mph) when she noticed the approach of Vehicle #1 in her travel lane. At first glance, Driver #2 interpreted Vehicle #1's movement as traveling in the center of the roadway in the designated turn lane (i.e., one lane, two way, channelization). However, she knew that there were no driveways or intersections for Driver #1 to enter along that section of roadway. Given the vehicle closure rate of 145 km/h (90 mph), Driver #2 suddenly realized that Vehicle #1 was traveling head-on in her lane. She applied full braking and attempted to steer to the right.

From the evidence at the scene and damage to Vehicle #1, it appeared that Driver #1 entered the on-coming lane and was traveling straight toward Vehicle #2 prior to the crash. There was no indication that Driver #1 applied the brakes or attempted an evasive steering maneuver prior to the impact.

Crash

Vehicle #1 struck the front of Vehicle #2 in a head-on, 100 percent overlap contact pattern at a SMASH computed impact speed of 73 km/h (45 mph). Vehicle #2's impact speed was computed

at 41 km/h (25 mph). This resulted in delta V values of 63 km/h (39 mph) for Vehicle #1 and 52 km/h (32 mph) for Vehicle #2.

Post Crash

Final Rest - Vehicle #1 came to the final rest position (FRP) in the left northbound lane rotated 22 degrees counterclockwise from its at impact heading angle. It traveled forward 1.3 m (4.3') from the point of impact (POI) to the final rest position (FRP). Vehicle #2 also came to the FRP in the left northbound lane rotated 50 degrees clockwise. It was pushed rearward 2 m (6.6') from the POI to the FRP.

Driver Activities - Driver #2 was removed from vehicle by rescue as well as the left rear and right rear occupants in Vehicle #2. The right front occupant in Vehicle #2 was helped out of the vehicle by bystanders and placed on the adjacent grass shoulder area. The right front occupant in Vehicle #1 was removed by rescue. The disposition of Driver #1 was not known.

Police Activities - The local police department responded to the crash scene and documented the final rest positions of both vehicles, obtained on-scene photographs, interviewed participants and witnesses to the crash, and controlled the traffic. They impounded both vehicles pending their further review of circumstances relating to the crash and to accommodate this investigation.

Rescue Activities - EMS responded and arrived on-scene within 7 minutes of notification. They were at the scene for a period of time which ranged between 13 and 20 minutes before departing for medical treatment facilities. Driver #1, Driver #2, and the right front occupant of Vehicle #2 were transported via ambulance to a local trauma center where the transport time was approximately 15 minutes. The right front occupant of Vehicle #1 and the left rear and right rear occupants of Vehicle #2 were transported to a pediatric unit in a nearby city via ambulance and arrived 97 minutes after the crash.

Scene Clearance - Both vehicles were towed from scene due to damage and were secured by police pending the outcome of their investigation and to accommodate this investigation.

HUMAN FACTORS/OCCUPANT DATA

| Vehicle #1 | Driver | Right Front Occupant | |
|-----------------------------------|---------------------|----------------------|--|
| Age/Sex: | 16 year old male | 17 year old male | |
| Height: | Unknown | Unknown | |
| Weight: | Unknown | 65.8 kg (145.0 lb.) | |
| Manual Restraint System Usage: | Restraint None Manu | | |
| Usage Source: | Vehicle inspection | Vehicle inspection | |

| Vehicle #1 | Driver | Right Front Occupant | |
|----------------------------|---|----------------------|--|
| Eyewear: | Unknown | Unknown | |
| Vehicle Familiarity: | Driver's Mother's vehicle, not familiar | | |
| Route Familiarity: | Unknown | | |
| Trip Plan: | Unknown | | |
| Type of Medical Treatment: | Treated and released | Admitted | |

| Vehicle #2 | Driver | Right Front Occupant | Left Rear Occupant | Right Rear Occupant |
|--------------------------------|--|--|---|---|
| Age/Sex: | 41 year old female | 13 year old male | 7 year old female | 11 year old female |
| Height: | 167.6 cm (66.0") | 167.6 cm (66.0") | 124.5 cm (49.0") | 165.1 cm (65.0") |
| Weight: | 65.8 kg (145.0 lbs) | 49.9 kg (110.0 lbs) | 27.2 kg (60.0 lbs) | 54.4 kg (120.0 lbs) |
| Manual Restraint System Usage: | 3-point lap and torso belt | 3-point lap and torso belt | Not wearing the available 3-point lap and torso belt | Not wearing the available 3-point lap and torso belt |
| Usage Source: | Vehicle inspection, police accident report, interview | Vehicle inspection, police accident report, interview | Vehicle inspection, police accident report, interview | Vehicle inspection, police accident report, interview |
| Eyewear: | Prescription glasses which were fractured during the crash | Prescription glasses which were deformed during the crash | None | None |
| Vehicle Familiarity: | Very familiar | Very familiar | | |
| Route Familiarity: | Driver was ve | Driver was very familiar with the roadway, traveled daily | | |

| Trip Plan: | Returning home from religious studies where the clattended classes and the driver participated as an as instructor. | | | re the children as an assistant |
|----------------------------|---|--|--|---------------------------------|
| Type of Medical Treatment: | Admitted Admitted Admitted Admitted | | | |

INJURY DATA

Driver #1 was transported to a local trauma unit while the right front occupant was transported to a pediatric unit located in a nearby city. Driver #1 was treated and release while the right front occupant was admitted. The driver and right front occupant in Vehicle #2 were transported to a local trauma unit while the two rear seat occupants were transported via ambulance to a pediatric unit located in a nearby city. Driver #2 was admitted and discharged 21 days after the crash. The 13 year old right front occupant in Vehicle #2 was observed overnight and released the next day. The 7 year old left rear occupant was admitted for 19 days and subsequently discharged to a rehabilitation center. The 11 year old right rear occupant was admitted and discharged 9 days after the crash.

| VEHICLE #1 | AIS-90 INJURY | INJURY SOURCE |
|---|---------------|------------------------------------|
| Driver #1 1. Fracture of foot (not specified) | 852000.29 | Floor/ toe pan |
| Right Front Occupant 1 Freeture of neck, observed with a hallo | Not codeable | Non contact injury source, flexion |

| VEHICLE #2 - DRIVER | AIS-90 INJURY | INJURY SOURCE |
|---|---------------|----------------------|
| 3 cm transverse laceration of the occipital scalp | 190600.16 | Left rear occupant |
| 2. Abrasion of the inner upper lip | 290202.18 | Front left air bag |
| 3. Multiple right rib fractures, fifth, sixth, seventh, eighth, and ninth, right pneumothorax | 450230.31 | Torso restraint belt |
| Right pulmonary contusion, right lung base | 441406.31 | Torso restraint belt |
| 5. Contusion of left upper chest | 490402.12 | Torso restraint belt |
| 6. Abrasions across the chest | 490002.10 | Torso restraint belt |
| 7. Contusion of left superior iliac crest region | 850602.12 | Lap belt |

| VEHICLE #2 - DRIVER | AIS-90 INJURY | INJURY SOURCE |
|--|--|----------------------|
| 8. Grade II open comminuted fracture of the right calcaneus (8 cm laceration across the medial aspect just below the medial malleolus showing bone protruding through) | 851400.21 | Brake pedal/ toe pan |
| 9. Open fracture of the right talus | 852200.21 | Brake pedal |
| 10-13. Fracture of the left 2-5 metatarsal, fracture dislocation of the left third fourth and fifth tarsal metatarsal joints with fractures of the second and third metatarsal heads | 852200.22 852200.22 852200.22 852200.22 | Toe pan |

Supplemental discussion: Divergent comminuted Lisfranc fracture of the left foot and second metatarsal head fracture (Left foot frank fracture, x-ray reveals a highly come divergent type Lisfranc injury.)

| VEHICLE #2 - RIGHT FRONT OCCUPANT | AIS-90 INJURY | INJURY SOURCE |
|---|------------------------|---------------------|
| Contusion of the head (No brain injury) | 190402.19 | Right rear occupant |
| 2. Deformed nose/bleeding | Not codeable | Front right air bag |
| 3-4. Contusions of both superior iliac crests | 850602.11 850602.12 | Lap restraint belt |
| 5. Abrasions on hips | 890202.13 | Lap restraint belt |
| 6. Acute fracture of the mid shaft of the left clavicle with overlapping of fracture fragments, deformity of shoulder | 752200.22 | Right rear occupant |
| 7. Inferiorly displaced scapula | Not codeable | Right rear occupant |
| 8. Pain of left elbow region | Not codeable | Unknown |
| 9. Pain of the left fifth finger | Not codeable | Unknown |

| VEHICLE #2 - RIGHT FRONT OCCUPANT | AIS-90 INJURY | INJURY SOURCE |
|--------------------------------------|---------------|-------------------------------------|
| 10. Abrasion of right foot area | 890202.11 | Lower right instrument panel |
| 11. Bruise of right knee | 890402.11 | Knee bolster/ glove compartment box |

| | VEHICLE #2 - LEFT REAR OCCUPANT | AIS-90 INJURY | INJURY SOURCE |
|----|---|------------------------|---------------|
| 1. | Unconscious and unresponsive to painful stimuli, coma level IV | 160824.50 | Driver |
| 2. | Large laceration of the scalp which extended across the midline with exposed skull and obvious fracture | 190604.15 | Driver |
| 3. | Multiple skull fractures | 150406.41 150406.42 | Driver |

Supplemental discussion: CT scan indicated the skull fracture extending bilaterally (bi-parientally with more extensively down the right side). As it crosses the sagittal suture, that suture is diastatic (that was widely diastatic but only minimally depressed). Five fragments removed ranging from $3.9~\rm cm \times 0.6~\rm cm \times 0.4~\rm cm$ to $7.5~\rm cm \times 5.0~\rm cm \times 0.4~\rm cm$, and in aggregate $11.0~\rm cm \times 8.0~\rm cm \times 0.4~\rm cm$. Brain matter in the laceration and subgaleal space. Multiple small right intracranial hemorrhages. Positive midline shift. Cisterns open. Ventricles are small. Laceration of the dura and the cerebral tissue directly below the fracture suggesting the fracture edge had initially been pushed into the brain tissue

| 4. Hematoma in the right parietal lobe consistent with the laceration of the dura | 140629.41 | Driver |
|--|-------------------------------------|--------------------------------|
| 5-7. Diffuse punctate contusions throughout both hemispheres, basal ganglia and brain stem | 140602.31 140602.32 140204.58 | Driver |
| 8. Small right parietal subdural hematoma measuring 7 mm in thickness | 140652.41 | Driver |
| 9. Tooth missing in the lower bridge of teeth (chest x-ray noted a tooth in the carina) | 251499.18 | Left front seat head restraint |
| 10. Several broken teeth | 251404.18 | Left front seat head restraint |

| | VEHICLE #2 - LEFT REAR OCCUPANT | AIS-90 INJURY | INJURY SOURCE |
|-----|---|---------------|--------------------------------|
| 11. | Piece of glass embedded in the center of the left cornea | Not codeable | Unknown |
| 12. | Horizontal abrasion across the middle of the right cornea | 240602.11 | Left front seat head restraint |
| 13. | Left pneumothorax | 442202.32 | Driver seat back support |
| 14. | Right lung collapsed | Not codeable | Driver seat back support |

| | VEHICLE #2 - RIGHT REAR OCCUPANT | AIS-90 INJURY | INJURY SOURCE |
|------|---|--|----------------------|
| 1. | Depression of the left parietal frontal region measuring an area of 10 x 12 cm | 150404.32 | Right front occupant |
| 2. | Fractures of the right frontal sinus | 250800.21 | Right front occupant |
| 3-4. | Fractures of the lateral, superior wall, and medial wall of the orbits bilaterally. On the right, small fragments of bone are displaced toward the medial rectus muscle | 251200.21 251200.22 | Right front occupant |
| 5. | Contusion of the left front scalp | 190402.12 | Right front occupant |
| 6. | Abrasion of left side of head | 190202.12 | Right front occupant |
| 7. | Small contusions of the left posterior temporal lobe and the left frontal lobe, contusions of the bilateral inferior frontal lobes | 140620.33 | Right front occupant |
| 8-11 | Superficial lacerations and abrasions of the left side of the forehead, abrasions of left side of face Laceration of the left lateral canthal angle (adjacent to eye, eyelid) | 290602.17 290202.17 290202.12 290602.12 | Right front occupant |
| 12. | Abrasion of the left eye lid | 29720.12 | Right front occupant |
| 13. | Large hematoma of the left face and scalp | 290402.12 | Right front occupant |

| | VEHICLE #2 - RIGHT REAR OCCUPANT | AIS-90 INJURY | INJURY SOURCE |
|-----|--|---------------|-------------------------|
| 14. | Closed basilar skull fracture raccoon eyes, left greater than right and fracture of the cribriform plate | 150200.38 | Right front occupant |
| 15. | Left pneumothorax, small bilateral areas of pulmonary contusions, located in the right upper lobe and the left mid lung with lesser in the right lower lobe disease. Heart size pulmonary contusion, no rib fractures | 441410.43 | Front seat back support |
| 16. | Small contusion of the left upper arm and left shoulder | 790402.12 | Front seat back support |
| 17. | Abrasions of the left shoulder | 790202.12 | Front seat back support |
| 18. | Minimally 1 mm displaced fracture of the right medial malleolar with probable Salter-Harris I fracture of the lateral malleolar fracture | 851610.21 | Front seat back support |
| 19. | Abrasions of the right foot | 890202.11 | Front seat cushion |
| 20. | Bruising of the right foot | 890402.11 | Front seat cushion |
| 21. | Excoriation over the left anterior ankle area | 890202.12 | Front seat cushion |

OCCUPANT KINEMATICS

Vehicle #1

Driver #1

The 16 year old male unrestrained driver of Vehicle #1 had been using an inhalant prior to crash. He swerved into the oncoming lane and struck Vehicle #2 in a 100 percent overlapping head-on impact configuration. During the impact sequence, the driver moved forward in response to impact forces and contacted the deployed air bag with his upper body and the knee bolster with his knees. Abraded sections of the anti-submarining designed seat cushion fabric indicated that his buttocks slid along the fabric seat cushion while his knees were loading and deforming the knee bolster.

buttocks slid along the fabric seat cushion while his knees were loading and deforming the knee bolster.

His upper body continued to move forward and compressed the front left air bag. This was apparent from the circumferential transfer pattern located on the instrument panel. He then loaded the steering wheel assembly with his upper torso which resulted in the deformation of both the upper and lower portions of the steering wheel rim and the forward displacement of the steering column. His feet were in contact with the toe pan as it was intruding into the occupant compartment which resulted in a reported fracture of the foot.

He rebounded rearward into the seat where he came to final rest. He was removed by rescue and transported to a trauma unit where he was treated and released. She came to rest in the driver seat.

Right Front Occupant - Vehicle #1

The 17 year old male right front occupant was restrained by the manual three point lap and shoulder belt at the time of the crash as evidenced by the separated stitching in the belt force limiter and contact evidence on the torso belt. His knees loaded the intruding knee bolster/glove compartment door resulting in pronounced deformation. His buttocks slid along the anti-submarining designed seat cushion resulting in two distinctive abraded areas on the fabric seat cushion. His upper torso continued to move forward and contacted the deployed front right air bag. Although his neck injury was not medically substantiated, the alleged fracture of the neck was attributed to flexion action resulting from the upper torso being restrained by the torso belt.

He rebounded rearward where he came to final rest in the seat. He was removed by rescue and transported via ambulance to a pediatric unit in a nearby city where he was admitted for treatment.

Driver #2

Driver #2, a 41 year old female who was restrained by the three point manual lap and torso belt, was braking with her right foot when the front of her vehicle was struck by the frontal plane of fender of Vehicle #1. Driver #2 moved forward and loaded the restraint belt system resulting in a contusion of the upper left shoulder area, abrasions across the chest, multiple rib fractures on the right side and contusions of the hips. Her face then contacted the inflated front left air bag as noted by a lipstick transfer on the face of the air bag. She continued forward and compressed the air bag with her upper torso and loaded the steering column as noted by the displacement of the steering column shear plate.

Driver #2's lower torso moved forward with her knees contacting and deforming the knee bolster. Her right foot loaded the brake pedal resulting in the forward displacement of the pedal and an Grade II open comminuted fracture of the right calcaneus. Her left foot was position against the toe pan and sustained numerous fractures of the of the metatarsal bones as her lower leg loaded the toe pan while the toe pan was intruding into the occupant compartment during the impact.

During the Driver #2's contact sequence with the front left air bag and steering wheel assembly, the unrestrained 7 year old female in the left rear seat moved forward over the left front seat back support and struck the posterior aspect of the driver's head with her head. This contact resulted in a 3.0 cm (1.2") laceration of the driver's posterior scalp. As the driver rebounded rearward against the seat back support, bodily fluid emitted from her head lesion was deposited on the head restraint and upper portion of the seat back support.

Right Front Occupant - Vehicle #2

The right front occupant, the 13 year son of the driver, moved forward during the pre-impact braking and was restrained by the three point manual lap and shoulder belt. During the crash sequence, the boy loaded the belt restraint system as noted by the tissue transfer on the torso belt and related contusions and abrasions of the hips attributed to the lap belt.

His upper body then contacted the deployed air bag resulting in a deformed nose with bleeding. His lower torso moved forward where his knees contacted the glove compartment door as noted by an abrasion mark and an indentation.

While in contact with the air bag, the boy's left shoulder was contacted by the unrestrained 11 year old female right rear occupant who moved forward over the top of the seat back support in response to the impact forces. This contact resulted in the fracture of the boy's left clavicle. The boy rebounded back against the seat back support and slumped forward as noted by the bodily fluid deposits on the front surface of the front right air bag. He was subsequently assisted from the vehicle by a passerby to a grass area adjacent to the roadway. He was transported to a local trauma unit via ambulance where he was admitted for observation and discharged the next day.

Left Rear Occupant - Vehicle #2

The unrestrained 7 year old female left rear occupant was sitting against the seat back support prior to the crash. During pre-impact braking and subsequent impact, the girl moved forward in response to vehicle braking and contacted the left front seat back support with her chest area and head restraint with her facial area. This resulted in the displacement of the seat back rest fabric which was punctured by the headrest height adjustment posts. Several broken teeth and an abrasion of the right cornea were attributed to this contact mechanism.

She continued forward over the top of the head restraint and struck the posterior aspect of the driver's head. The child sustained a large laceration of the scalp, skull fracture, laceration of the dura and cerebral tissue below the fracture, and a subdural hematoma from this contact sequence. She rebounded and came to rest on the floor behind the driver's seat. She was transported to pediatric unit where she arrived unconscious and unresponsive to painful stimuli.

Right Rear Occupant - Vehicle #2

The unrestrained 11 year old female right rear occupant was sitting against the rear seat back support prior to the crash. During pre-impact braking and the subsequent impact sequence, the girl

moved forward and loaded the back of the right front seat back support with her knees and upper body which resulted in bilateral lung contusions and abrasions and contusions of the left arm and shoulder. She continued forward over the top of the head restraint and struck the right front occupant's left shoulder with her head. This resulted in fracture of skull and contusions of the brain. She rebounded into the rear seat area where she was removed by rescue. She was transported to a pediatric unit in a nearby city where she arrived in an unconscious state.

APPENDIX A SELECTED PHOTOGRAPHS

SELECTED PRINTS Calspan Case No. 95-08



1. On-scene photograph of Vehicle #1 [1995 Ford Contour GL (Blue)] and Vehicle #2 [1994 Dodge Intrepid (Red)] at final rest positions (FRP).



2. View of both vehicles at FRP looking north. Both vehicles came to rest in the left northbound lane.



3. View of the vehicles from the left southbound lane.



4. View of both vehicles at FRP looking west.



5. View of both vehicles at FRP looking east.



6. View of Vehicle #2 at FRP looking north from the left southbound lane.



7. View of Vehicle #1's trajectory 75 m (250') prior to point of impact (POI).



8. View of Vehicle #1's trajectory 60 m (200') prior to point of impact (POI).



9. View of Vehicle #1's trajectory 45 m (150') prior to POI.



10. View of Vehicle #1's trajectory 30 m (100') prior to POI.



11. View of Vehicle #1's trajectory 15 m (50') prior to POI.



12. View of Vehicle #1's trajectory 25 m (25') prior to POI.



13. View of Vehicle #1's trajectory at POI.



14. Closer view of gouge marks in road surface. The elongated gouge mark along the left side of the photograph is related to Vehicle #1 undercarriage component and the cluster of gouges in the right center of the photograph is related to Vehicle #2 undercarriage components.



15. Close-up view of the gouge mark produced by the undercarriage of Vehicle #1.



16. Close-up view of gouge marks produced by the undercarriage of Vehicle #2 looking south in the direction of Vehicle #1's trajectory.



17. Reverse view of Vehicle #1's trajectory from the POI.



18. Reverse view of Vehicle #1's trajectory 15 m (50') from the POI.



19. Reverse view of Vehicle #1's trajectory 30 m (100') from the POI.



20. View of Vehicle #2's trajectory 100 m (300') prior to the POI.



21. View of Vehicle #2's trajectory 75 m (250') prior to the POI.



22. View of Vehicle #2's trajectory 60 m (200') prior to the POI.



23. View of Vehicle #2's trajectory 45 m (150') prior to the POI.



24. View of Vehicle #2's trajectory 30 m (100') prior to the POI.



25. View of Vehicle #2's trajectory 15 m (50') prior to the POI.



26. View of Vehicle #2's trajectory 7.5 m (25') prior to the POI.



27. View of Vehicle #2's trajectory at the POI.



28. Closer view of the gouge marks at the POI.



29. Reverse view of Vehicle #2's trajectory from the POI.



30. Reverse view of Vehicle #2's trajectory 45 m (150') from the POI.



31. Frontal view of Vehicle #1 (1995 Ford Contour GL) with the bumper cover removed to show frontal displacement.



32. Frontal view of Vehicle #1 with the bumper cover placed into position.



33. View of the front bumper cover illustrating the direct contact pattern.



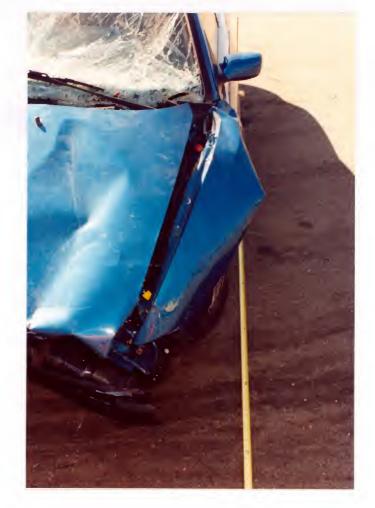
34. Frontal view of Vehicle #1 with the hood elevated and showing the location of the left and right primary crash front air bag sensors.



35. Closer view of the left and right primary crash front air bag sensors.



36. Longitudinal view along the right side plane of Vehicle #1 highlighting the minimal lateral movement of the vehicle structure.



37. Longitudinal view along the left side plane of Vehicle #1 highlighting the lack of outward lateral movement of the vehicle structure.



38. Left front corner view of Vehicle #1.



39. Lateral view of Vehicle #1 showing the extent of frontal crush.



40. Lateral view from the left side of Vehicle #1 showing the extent of frontal crush.



41. Lateral view from the right side of Vehicle #1 showing the extent of frontal crush.



42. View of Vehicle #1's right side plane.



43. Left rear corner view of Vehicle #1.



44. Longitudinal view from the left rear bumper of Vehicle #1 highlighting the lack of outward lateral movement of the vehicle structure.



45. Right rear corner view of Vehicle #1.



46. Overhead view of Vehicle #1.



47. View of the right side plane of Vehicle #1 with the right front door placed into position.



48. Right front corner view of Vehicle #1 with the absence of the bumper cover and right front door.



49. Same view as the previous photograph with the bumper cover and right front door placed into approximate position.



50. Angular view of Vehicle #1's interior showing occupant contacts to the knee bolster, glove compartment door, and seat cushions.



51. Lateral view of the front seat area of Vehicle #1.



52. Lateral view of the steer wheel rim taken from the left side of the vehicle showing rim displacement and position of the upper flap of the module cover behind the upper rim.



53. Lateral view of the steer wheel rim taken from the right side of the vehicle illustrating rim displacement.



54. Panoramic view of the roof and upper instrument panel showing the sun roof shade panel which was placed back into position.



55. Closer view of the sun roof shade panel looking laterally from right to left.



56. View of the sun roof AS-3 glazing which separated from Vehicle #1 during the crash. Red paint chips matching the color of Vehicle #2 were present on the glazing surface.



57. Panoramic view of the windshield and instrument panel of Vehicle #1 highlighting occupant contacts.



58. View of the left instrument panel, steering wheel, air bag pushed back into module, and seat cushion abraded fabric.



59. Close-up view of generant deposit along the underside of the upper instrument panel which aligned with the location of the top designed air bag vent ports.



60. Close-up view of scratch marks along the underside of the upper instrument panel which extended downward in a curved pattern to the mid instrument panel level. These marks were the result of contact by the peripheral edge of the driver side air bag.



61. An other view of the scratch mark pattern illuminated in the previous photograph.



62. Overall view of the driver side air bag in Vehicle #1.



63. View of the air bag vent ports located on the instrument panel side of the air bag in the 11 o'clock and 1 o'clock position.



64. View of the driver air bag module identification number located along the left side of the air bag module surface.



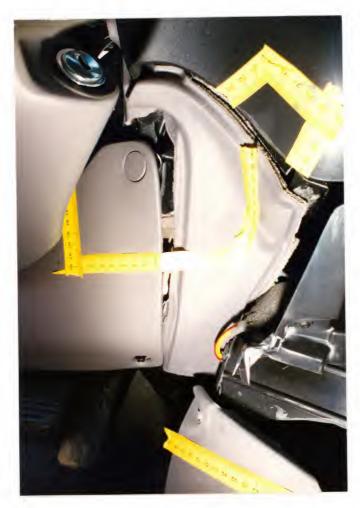
65. View of the lower flap of the air bag module cover.



66. View of the deformation Vehicle #1's knee bolster left of the steering column.



67. View of a black scuff mark along the bottom edge of the knee bolster left of the steering column.



68. View of the deformation and contact to the knee bolster and lower instrument panel right of the steering column.



69. View of the steering column slip joint which was displaced 7.0 cm (2.8"). The original placement of the column was located at the spot marked by the No.10 on the calibrated yellow tape. The steering wheel is oriented at the left side of the photograph.



70. View of the lower portion of the steering column highlighting the steering column energy absorbing device (noted by the yellow calibrated in the upper area of the photograph) and the offset convoluted steering column (noted by the yellow calibrated tape in the lower portion of the photograph).



71. View of the abraded fabric on the driver's seat resulting from contact by the driver's left and right upper legs and buttocks.



72. Close-up view of the abraded fabric on the driver's seat.

BEST AVAILABLE

73. View of the center instrument panel of Vehicle #1.





74. View of the right instrument panel showing right front occupant contacts. The plastic glove compartment door panel is visible in the lower portion of the photograph.



75. View of the plastic glove compartment panel repositioned highlighting the occupant contact pattern.



76. Close-up view of plastic glove compartment panel.



77. Closer view of the deformation to the metallic structure of the glove compartment door and displacement of the glove compartment door latch handle.



78. Close-up view of the latch handle showing a blue material transfer in the lower ring of the locking mechanism.



79. Angular view of the instrument panel taken from the right side of the vehicle with the passenger side air bag tucked into the module.



80. Same view as the previous photograph except with the passenger side air bag fully exposed.



81. View of the passenger side air bag and upper air bag flap.



82. Close-up view of the passenger air bag module cover and attached instrument panel finish panel.



83. View of the leading edge of the instrument panel finish panel.



84. Close-up view of the metallic upper flap of the air bag module showing the date of manufacture.



85. View of the passenger air bag with the single air bag vent port located at the upper left aspect of the air bag.



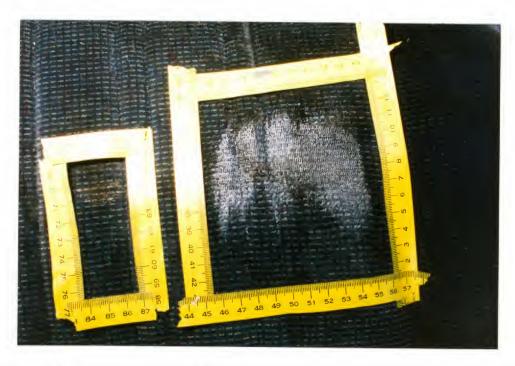
86. View of passenger air bag highlighting a linear area where the air bag fabric was snagged during deployment.



87. Close-up view of the linear snag of the passenger air bag fabric.



88. Lateral view of the front seat area taken from the right side of the vehicle.



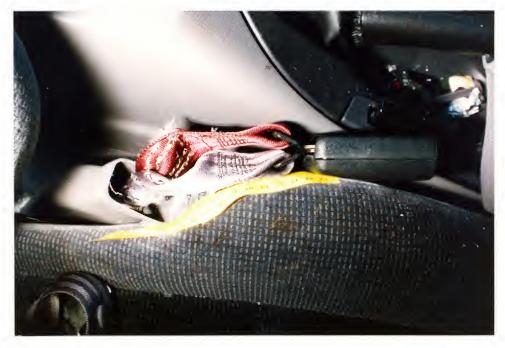
89. View of the abraded fabric on the right front passenger's seat cushion resulting from contact by the right front occupant's right and left upper legs and buttocks. The larger abraded area is associated with the occupant's right side.



90. A lateral view from the right side of the vehicle looking rearward.



91. Close-up view of contact evident on the right front seat head restraint resulting from rebound contact by the right front occupant.



92. View of the right front seat belt stitching separation at the buckle resulting from occupant loading during the crash.

93. View of the right front torso belt height adjustment.





94. View of the D-ring transfer mark on the right front torso belt.



95. View of the right front torso belt twisted in the D-ring.



96. View of the rear seat area from the left side of the vehicle.



97. Frontal view of Vehicle #2 (1994 Dodge Intrepid).



98. View of the right front air bag system impact sensor located on the headlamp carrier surface.



99. View of the left front air bag system impact sensor located on the headlamp carrier surface.



100. View of the frontal plane from the left side showing the extent of rearward crush.

101. View of the frontal plane from the right side showing the extent of rearward crush.





102. Left front corner view of Vehicle #2.



103. Lateral view of the left front side of Vehicle #2.



104. Overall view of the left side plane of Vehicle #2.



105. Left rear corner view of Vehicle #2.



106. Right rear corner view of Vehicle #2.



107. View of the right side plane of Vehicle #2.



108. Elevated view of Vehicle #2.



109. Elevated view of the frontal plane showing the extent of crush.



110. Right front corner view of Vehicle #2.



111. Lateral interior view of Vehicle #2 taken from the left side. The driver air bag was pushed back into the air bag module for photographic purposes.



112. Same view as shown in the previous photograph except with the driver air bag fully extended.



113. View of the driver's seat in Vehicle #2 highlighting bodily fluid on the head restraint and seat back rest and contact evidence on the torso belt.



114. Close-up view of the bodily fluid marks on the driver side head restraint and seat back rest.



115. Close-up view of a black transfer mark on the driver's torso belt from the D-ring.



116. Close-up view of a fabric transfer in the torso belt from the driver's clothing.



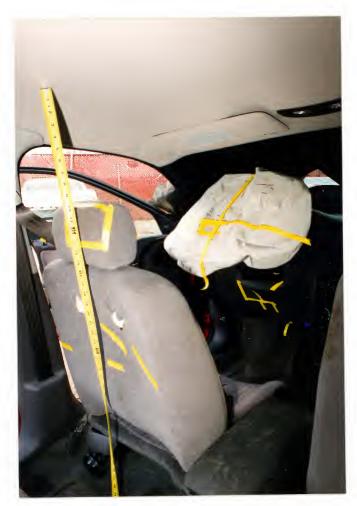
117. Angular view of Vehicle #2's instrument panel.



118. View of the driver's knee bolster showing occupant contact which was left of the steering column.



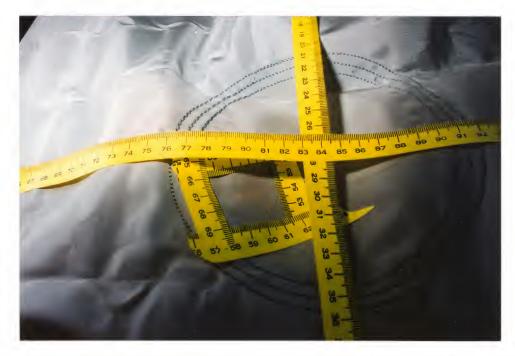
119. View of the deformation to the right side of the brake pedal.



120. View of the driver side air bag and the driver seat back rest highlighting occupant contacts.



121. View of the driver side air bag.



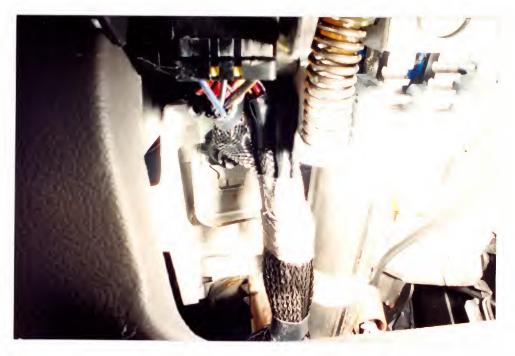
122. Close-up view of lipstick transfer in the upper central area of the lower left quadrant.



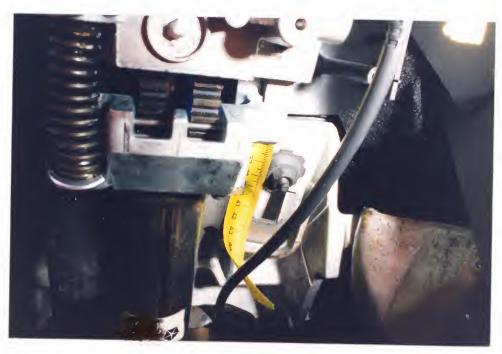
123. View of the driver air bag identification number and thickness of the upper flap of the air bag module.



124. View of the Vehicle #2's steering column shear plate and shear capsules.



125. View of the left shear capsule showing 9.5 mm (0.4") of shear plate movement.



126. View of the right shear capsule showing 25.4 mm (1.0") of shear plate movement.



127. Lateral view of the instrument panel with the both air bags pushed back into the air bag modules.



128. Angular view of the instrument panel showing contact patterns on the glove compartment door by the knees and lower legs of the right front occupant.



129. Close-up view of the contact pattern by the right front passenger's left knee and lower leg on the left side of the glove compartment door and the heavily abraded surface of the adjacent lower instrument panel.



130. Close-up view of the contact pattern by the right front passenger's right knee and lower leg on the right side of the glove compartment door.



131. View of the passenger side air bag of Vehicle #2 which vents propellant gases through its porous material. The air bag was designed without the typical exhaust vent port(s).



132. Closer view of the passenger side air bag showing bodily fluid deposits from the right front occupant.



133. Another view of the passenger side air bag taken from the center of the vehicle interior.



134. Lateral view of the front seating area with both air bags visible.



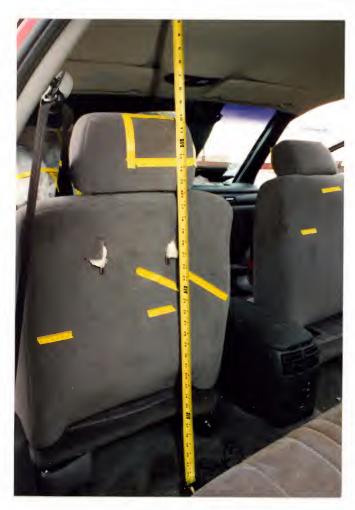
135. Lateral view of the right front seat showing contact evidence on the torso belt.



136. Close-up view of the contact evidence on the right front torso belt.



137. View of the rear seating area of Vehicle #2 showing contact evidence to the surface of the front seat back rests.



138. View of contact evidence on the left front seat back rest resulting from contact by the left rear occupant.



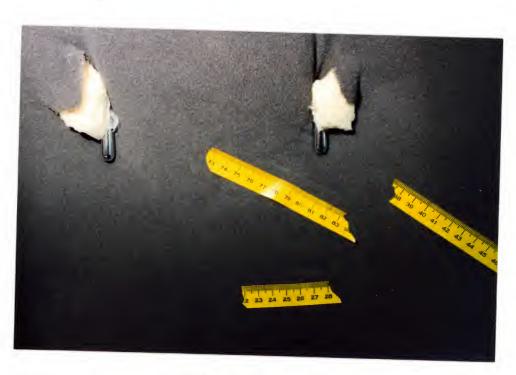
139. View of the back side of the left front head restraint illustrating the distance between the roof liner and the top of the head restraint (the tape measure is calibrated in inches).



140. Close-up view of a contact pattern on the back side of the left front head restraint.



141. Perpendicular view of the contact pattern on the back side of the left front seat back rest.



142. Close-up view of the center of the left seat back rest highlighting the protruding head restraint height adjustment posts and contact evidence.



143. Close-up view of contact evidence on the right side of the left front seat back rest.



144. Close-up view of contact evidence on the left side of the left front seat back rest.



145. Lateral view of the rear seating area looking from the left side of the vehicle.



146. Angular view of the rear seating area which focuses on the right rear occupant space and contact evidence on the back side of the right front seat back rest.

147. Overall view of the right rear seat back rest showing contact evidence and calibrated floor to roof dimensions (calibrated in inches).





148. Closer view of contact evidence on the back surface of the right front seat back rest.

Appendix B SMASH ALGORITHM

Summary of Results Using Damage

SCI 95-08

| | Speed Change (Damage) | Impact Speed (Damage and Spinout) |
|------------------|---|---|
| Longitudinal -63 | km/h (-39 mph) 73 km/h (0 mph) (0 ½ = 208798 Joules (15398 = 62.2 km/h (38 | 0 km/h (0 mph) 31 Ft-Lb) |
| Longitudinal -52 | km/h (-32 mph) 41 km/h (0 mph) (0 ½ = 177525 Joules (13091 = 52.2 km/h (32 | 0 km/h (0 mph) |

Separation Results

| Separation (Using Spinout) | Vehicle #1 ááááááááá | Vehicle #2 áááááááááá |
|----------------------------|--|---|
| us vs psisd | 10 km/h (6 mph) -3 km/h (-2 mph) -36 deg/sec | -11 km/h (-7 mph) -7 km/h (-4 mph) 71 deg/sec |

General Information

| Year Make Model | Vehicle #1 ááááááááá 1995 Ford Contour | Vehicle #2 ááááááááá 1994 Dodge Intrepid |
|-----------------------|--|--|
| CDC | 12FDEW4 | 12FDEW3 |
| Side Damaged | F | F |
| PDOF Angle | 0 ½ | 0 ½ |
| Heading Angle | 0 ½ | 180 ½ |

Damage Information

| Vehicle Damage Known Crush Length | Vehicle #1 áááááááááá Yes 144.8 cm (57 in) | Vehicle #2 áááááááááá Yes |
|--------------------------------------|--|---|
| Crush Length C1 C2 C3 C4 C5 C6 | 144.8 cm (57 in) 31.5 cm (12 in) 47.0 cm (19 in) 64.0 cm (25 in) 82.6 cm (33 in) 83.1 cm (33 in) 74.7 cm (29 in) 0.0 cm (0 in) | 154.9 cm (61 in) 45.7 cm (18 in) 63.8 cm (25 in) 55.6 cm (22 in) 55.3 cm (22 in) 60.3 cm (24 in) 67.3 cm (26 in) |
| D' | 0.0 cm (0 in) 9.7 cm (4 in) | 0.0 cm (0 in) 1.9 cm (1 in) |

Scene Information

| | Vehicle #1 áááááááááá | Vehicle #2 áááááááááá |
|---|--------------------------------------|--|
| Impact x position y position heading angle | 2.8 m (9.2 ft) 1.3 m (4.3 ft) | 7.2 m (23.6 ft) 1.4 m (4.6 ft) |
| Rest x position y position | 0 ½ 4.1 m (13.5 ft) 0.9 m (3.0 ft) | 180 ½ 9.2 m (30.2 ft) 2.6 m (8.5 ft) |
| heading angle Side-Slip Angle | -20 ½ 0 ½ | -130 ½ 0 ½ |

Motion Information

| | Vehicle #1 áááááááááá | Vehicle #2 áááááááááá |
|--|---|--|
| Did Vehicle Rotate? Did Rotation Stop? End of Rotation x position End of Rotation y position End of Rotation angle | Yes No 4.1 m (13.5 ft) 0.9 m (3.0 ft) -20.0 ½ | Yes No 9.2 m (30.2 ft) 2.6 m (8.5 ft) -130.0 ½ |
| Curved Path? Curved Path x position Curved Path y position | No 0.0 m (0.0 ft) 0.0 m (0.0 ft) | No 0.0 m (0.0 ft) 0.0 m (0.0 ft) |
| Direction of Rotation Amount of Rotation | CCW < 360½ | CW < 360½ |

Was There Sustained Contact Between the Vehicles? No

Friction Information

| | Vehicle #1 áááááááááá | Vehicle #2 ááááááááá |
|--|------------------------------|-------------------------|
| Rolling Resistance Left Front Wheel Right Front Wheel Left Rear Wheel Right Rear Wheel | 1.00 1.00 0.01 0.01 | 1.00 1.00 0.01 |
| | 0.01 | 0.01 |

Coefficient of Friction = 0.50

Vehicle Dimensions

| | Vehicle #1 ááááááááá | Vehicle #2 áááááááááá |
|--|--|--|
| Length Width Wheelbase Weight CG to Front of Veh Engine Displacement | 467.2 cm (184 in) 175.5 cm (69 in) 270.4 cm (106 in) 1384 kgs (3051 lbs) 228.1 cm (90 in) 2.0 liters | 512.4 cm (202 in) 189.0 cm (74 in) 287.0 cm (113 in) 1677 kgs (3697 lbs) 251.0 cm (99 in) 3.3 liters |
| Moment of Inertia Vehicle Mass | 273079 kgs (24171 lbs) 1384 kgs (7.9 lb-s^2/in) | 397683 kgs (35200 lbs) 1677 kgs (9.6 lb-s^2/in) |

Trajectory Simulation Results

| Simulation Time: | 0.000 seconds | <pre>Integration Step =</pre> | 0.000 seconds |
|--|---------------|--|--|
| No. of Iterations Best Iteration Error | | Vehicle #1 áááááááááá 0 0 0 0.000 | Vehicle #2 ááááááááá 0 0 0.000 |
| Predicted Rest Posi | tions x | 0.0 m (0.0 ft) | 0.0 m (0.0 ft) |
| | Y | 0.0 m (0.0 ft) | 0.0 m (0.0 ft) |
| | angle | 0.0 ½ | 0.0 ½ |
| Scene Rest Position | s x | 4.1 m (13.5 ft) | 9.2 m (30.2 ft) |
| | Y | 0.9 m (3.0 ft) | 2.6 m (8.5 ft) |
| | angle | -20.0 ½ | -130.0 ½ |
| Residual Velocity | Linear | 0 km/h (0 mph) | 0 km/h (0 mph) |
| | Angular | 0.00 deg/sec | 0.00 deg/sec |

$\ensuremath{\mathsf{U}}$ S. Department of Transportation

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

| | CRASHWORTHINESS DATA SYSTE |
|---|---|
| 1. Primary Sampling Unit Number | 12. Speed Limit |
| 2. Case Number - Stratum 95-08 | (000) No statutory limit Code posted or statutory speed limit |
| 3. Vehicle Number O / | in kmph (999) Unknown |
| VEHICLE IDENTIFICATION | |
| 4. Vehicle Model Year Code the last two digits of the model year (99) Unknown | mph X 1.6093 =kmph 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present |
| 5. Vehicle Make (specify): 1 2 Applicable codes are found in your | (7) Not reported (8) No driver present (9) Unknown |
| NASS Data Collection, Coding and Editing Manual. (99) Unknown | 14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit – 0.xx) |
| 6. Vehicle Model (specify): 0 3 5 | (95) Test refused (96) None given (97) AC test performed, results unknown |
| Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown | (98) No driver present (99) Unknown |
| | Source: |
| 7. Body Type Note: Applicable codes may be found on the back of this page. | 15. Police Reported Other Drug Presence For Driver |
| 8. Vehicle Identification Number | (0) No other drug(s) present * Olice Verbally (1) Yes other drug(s) present Olice Verbally (7) Not reported indicales fluit (8) No driver present (9) Unknown an inhabitant puris to cresh |
| 1 FALP65315 K (Senal # on; Hed) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | (8) No driver present (9) Unknown an interlant Accis to crash |
| Left justify; Slash zeros and letter Z (@ and-Z) No VIN—Code all zeros Unknown—Code all nines | (0) No specimen test diven |
| 9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi | (1) Drug(s) not found in specimen(2) Drug(s) found in specimen, (specify): |
| (2) Vehicle used as school bus | (3) Specimen test given, results unknown or not obtained |
| (3) Vehicle used as other bus (4) Military (5) Police | (8) No driver present (9) Unknown if specimen test given |
| (6) Ambulance (7) Fire truck or car | 17. Driver's Zip Code |
| (8) Other (specify):(9) Unknown | (00001)Driver not a resident of U.S. or territories |
| OFFICIAL RECORDS | Code actual 5-digit zip code (99998)No driver present |
| 10. Police Reported Vehicle Disposition | (99999)Unknown |
| (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown | 18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) |
| 11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown | (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): |
| mph X 1.6093 = kmph | (8) No driver present (9) Unknown |

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- 63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer(68) Truck-tractor pulling one trailer
- (68) Truck-tractor pulling one trailer(69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

| | PRECRASH ENVIRONMENTAL DATA | ^ | | Page : |
|------|---|------|---|--------|
| 19 | | 1 | 25. Roadway Surface Condition | 2 |
| 10. | Relation To Interchange Or Junction | _0 | (1) Dry (2) Wet | |
| | (0) Non-interchange area and non-junction | | | * * |
| | (1) Interchange area related | | (3) Snow or slush | |
| | Non Interphones in sales | | (4) Ice | |
| | Non-Interchange junctions (2) Intersection related | | (5) Sand, dirt, or oil | |
| | (3) Drivowov eller conservation | | (8) Other (specify): | |
| | (3) Driveway, alley access related(4) Other junction (specify) | | (9) Unknown | |
| | (4) Other junction (specity) | | | _ |
| | (5) Unknown type of junction | | 26. Light Conditions | 2 |
| | | | (1) Daylight | |
| | (9) Unknown | | (2) Dark | |
| | | | (3) Dark, but lighted | |
| | 9 | | (4) Dawn | |
| 20. | Trafficway Flow | 1 | (5) Dusk | |
| | (0) Not physically divided (two way traffic) | | (9) Unknown | |
| | (1) Divided trafficway-median strip without | | | |
| | positive barrier | | 07.4. | |
| | (2) Divided trafficway-median strip with posit | ive | 27. Atmospheric Conditions | 1 |
| | barrier barrier | .146 | (0) No adverse atmospheric-related driving | |
| | (3) One way traffic | | conditions | |
| | (9) Unknown | | (1) Rain | |
| | | | (2) Sleet/hail | |
| . 4 | N | | (3) Snow | |
| | Number Of Travel Lanes | 2 | (4) Fog | |
| | (1) One | | (5) Rain and fog | |
| | (2) Two | | (6) Sleet and fog | |
| | (3) Three | | (7) Other (e.g., smog, smoke, blowing sand or | r |
| | (4) Four | | dust, etc.) (specify): | |
| | (5) Five | - 1 | * | |
| | (6) Six | | (9) Unknown | |
| | (7) Seven or more | | | |
| ' | (9) Unknown | | 28. Traffic Control Device | 0 |
| | | | (0) No traffic control(s) | |
| 2. 1 | Roadway Alignment | , 1 | (1) Traffic control signal (not RR crossing) | |
| | (1) Straight | | | - 1 |
| | (2) Curve right | | Regulatory | |
| | (3) Curve left | - 1 | (2) Stop sign | l |
| | (9) Unknown | | (3) Yield sign | l |
| ' | , | | (4) School zone sign | |
| _ | | | (5) Other regulatory sign (specify): | |
| | Roadway Profile © 1.7% | 1 1 | | |
| | (1) Level | | (6) Warning sign (not RR crossing) | l |
| | 2) Uphill grade (>2%) | | (7) Unknown sign | ı |
| | 3) Hill crest | l | (8) Miscellaneous/other controls including RR | |
| (| 4) Downhill grade (>2%) | i | controls (specify): | 1 |
| | 5) Sag | | | ŀ |
| (| 9) Unknown | | (9) Unknown | |
| | | | | |
| 4. F | Roadway Surface Type | 2 | 29. Traffic Control Device Functioning | |
| | 1) Concrete | | (0) No traffic control device | 0 |
| (| 2) Bituminous (asphalt) | | (1) Traffic control device not functioning | ł |
| | 3) Brick or block | | (specify): | - 1 |
| (4 | 4) Slag, gravel, or stone | | (2) Traffic control device functioning properly | _ |
| - 11 | 5) Dirt | - 1 | Joint of device functioning properly | |
| | | | (9) Unknown | |
| (8 | 8) Other (specify): 9) Unknown | - [| (9) Unknown | |

| | PRECRASH DRIVER RELATED DATA | This Vehicle Traveling |
|-------------|---|--|
| 30. | Driver's Distraction/Inattention To Driving | (10) Over the lane line on left side of travel lane |
| ٠٠. | (Prior To Recognition Of Critical Event) | (11) Over the lane line on right side of travel lane |
| | (00) No driver present | (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side |
| | (01) Attentive or not distracted | (14) End departure |
| | (02) Looked but did not see | (15) Turning left at intersection |
| | Distractions | (16) Turning right at intersection |
| | (03) By other occupant(s), (specify): | (17) Crossing over (passing through) intersection |
| | 10.41 | (18) This vehicle decelerating (19) Unknown travel direction |
| | (04) By moving object in vehicle (specify): | (10) Shahowh dave direction |
| | (05) While talking or listening to cellular phone | Other Motor Vehicle In Lane |
| | (specify location and type of phone): | (50) Other vehicle stopped |
| | (OC) MET TO P | (51) Traveling in same direction with lower steady speed |
| | (06) While dialing cellular phone (specify location and type of phone): | (52) Traveling in same direction while decelerating |
| | and type of phone,. | (53) Traveling in same direction with higher speed |
| | (07) While adjusting climate controls | (54) Traveling in opposite direction |
| | (08) While adjusting radio, cassette, CD (specify): | (55) In crossover (56) Backing |
| | (09) While using other device/object in vehicle | (59) Unknown travel direction of other motor |
| | (specify): | vehicle in lane |
| | (10) Sleepy or fell asleep | Other Martin Mahi I. F |
| | (11) Distracted by outside person, object, or event | Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left |
| | (specify):(12) Eating or drinking | lane line |
| | (13) Smoking related | (61) From adjacent lane (same direction)—over right |
| | (97) Distracted/inattentive, details unknown | lane line |
| | (98) Other, distraction (specify): | (62) From opposite direction—over left lane line (63) From opposite direction—over right lane line |
| | (99) Unknown | (64) From parking lane |
| 21 | Pre-Event Movement (Prior to O | (65) From crossing street, turning into same |
| 31. | Recognition of Critical Event) | direction |
| | (00) No driver present | (66) From crossing street, across path (67) From crossing street, turning into opposite |
| | (01) Going straight | direction |
| | (02) Decelerating in traffic lane | (68) From crossing street, intended path not known |
| • | (03) Accelerating in traffic lane (04) Starting in traffic lane | (70) From driveway, turning into same direction |
| | (05) Stopped in traffic lane | (71) From driveway, across path (72) From driveway, turning into opposite direction |
| | (06) Passing or overtaking another vehicle | (73) From driveway, intended path not known |
| | (07) Disabled or parked in travel lane (08) Leaving a parking position | (74) From entrance to limited access highway |
| | (09) Entering a parking position | (78) Encroachment by other vehicle—details unknown |
| | (10) Turning right | unknown |
| | (11) Turning left | Pedestrian, Pedalcyclist, or Other Nonmotorist |
| | (12) Making a U-turn (13) Backing up (other than for parking position) | (80) Pedestrian in roadway |
| | (14) Negotiating a curve | (81) Pedestrian approaching roadway (82) Pedestrian—unknown location |
| | (15) Changing lanes | (83) Pedalcyclist or other nonmotorist in roadway |
| | (16) Merging | (specify): |
| | (17) Successful avoidance maneuver to a previous critical event | (84) Pedalcyclist or other nonmotorist approaching |
| | (97) Other (specify): | roadway, (specify): |
| | | location (specify): |
| | (99) Unknown | |
| 32 | Critical Precrash Event / () | Object or Animal |
| U L. | Critical Precrash Event This Vehicle Loss of Control Due To: | (87) Animal in roadway (88) Animal approaching roadway |
| | (01) Blow out or flat tire | (89) Animal—unknown location |
| | (02) Stalled engine | (90) Object in roadway |
| | (03) Disabling vehicle failure (e.g., wheel fell off) (specify): | (91) Object approaching roadway |
| | (04) Non-disabling vehicle problem (e.g., hood flew | (92) Object—unknown location (98) Other critical precrash event (specify): |
| | up) (specify): | |
| | (05) Poor road conditions (puddle, pot hole, ice, etc.) | (99) Unknown |
| | (specify):(06) Traveling too fast for conditions | |
| | (08) Other cause of control loss (specify): | |
| | • | |
| | (09) Unknown cause of control loss | 1 |

| (99) Unknown (Note: Applicable codes on back of this page) (O0) No impact (O0) No impact Code the number of the diagram that best | 33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (98) Other action (specify): | 35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown |
|---|---|--|
| (9) Precrash stability unknown | (99) Unknown 34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify): | (Note: Applicable codes on back of this page) (OO) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): |

| δυώ C¶€- | Configur- ation | ACCIDENT TYPES (Includes Intent) | |
|---------------------------------------|--------------------------------------|--|--|
| | A. Right Roadside Departure | DRIVE OFF CONTROL/ TRACTION LOSS WITH VEH., PED., ANIM. OTHER | 05 3 SPECIFICS UNKNOWN |
| 1 Single Driver | B Left Roadside Departure | DRIVE OFF | 10 |
| | C Forward Impact | PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPECIFIC OTHER OTHER | 16 S SPECIFICS UNKNOWN |
| CWBY | D Rear-End | 20 21 24 28 28 30 (EACH of 27 21 22 21 22 21 22 22 22 22 22 22 22 22 | 22) (EACH + 33) |
| Il Same Trafficway Same Direction | E Forward Impact | CONTROL/ CON | UNKNOWN CH • 42) (EACH • 43) CIFICS SPECIFICS IER UNKNOWN |
| | F Sideswipe Angle | 44 45 45 (EACH • 48) SPECIFICS OTHER | EACH - 49) |
| ay Jina | G Head-On | 50 51 (EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN | |
| Same Trafficway Oppiwite Direction | H Forward Impact | CONTROL/ CONTROL/ | CH • © (EACH • ©) |
| | I. Sideswiper Angle | (EACH • 65) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN OTHER | ER UNKNOWN |
| Change Trafficway Vehicle Turning | J. Turn Across Path | INITIAL OPPOSITE INITIAL SAME DIRECTIONS EPECIDINGCTIONS OTHE | |
| IV. Change Vehicle | K. Turn Into Path | 77 79 80 ST 32 (EAC) | H • 84) (EACH • 25) |
| ing Paths (Vehicle Damage) | L. Straight Paths | (EACH • 20) | H • 91) PICS UNKNOWN |
| VI Miscel: lancous | M. Backing Etc | 92 93 OTHER VEH. OR OBJECT SACKING VEH. 98 Other Accident Type 99 Unknown Accident Type 00 No Impact | pe |

| | OCCUPANT RELATED | 44 | Vahiola Carro Waish |
|-----|---|-------------|---|
| 37. | Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown | 44. | Vehicle Cargo Weight Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown |
| 38. | Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown | | Source: ROLLOVER DATA |
| 39. | Number of Occupant Forms Submitted 0 2 | 45. | Rollover (00) No rollover (no overturning) |
| | AIR BAG RELATED | | Rollover (primarily about the longitudinal axis) |
| | Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts | 46. | (17) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify): (98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown Rollover Initiation Type (00) No rollover |
| 41. | Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed Multiple Air Bag Vehicle | | (01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify): |
| 42. | (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed (8) Air bag(s) deployed, details unknown (9) Unknown Air Bag(s) Deployment, Other Than First O | 47. | (98) Rolloverend-over-end (99) Unknown rollover initiation type Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median |
| | (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown Specify type of "other" air bag present: | 48. 49. | (8) Rolloverend-over-end (9) Unknown Rollover Initiation Object Contacted (Note: Applicable codes on back of page) Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): |
| | VEHICLE WEIGHT ITEMS | (| (6) Non-contact rollover forces (specify): (8) Rolloverend-over-end (9) Unknown |
| 43. | Vehicle Curb Weight Code weight to nearest 10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown Source: MUMA | (((| Direction of Initial Roll O) No rollover 1) Roll right - primarily about the longitudinal axis 2) Roll left - primarily about the longitudinal axis 8) Rolloverend-over-end 9) Unknown roll direction |

| | OVERRIDE/UNDERRIDE (THIS VEHICLE) | ACCIDENT RECONSTRUCTION PROGRAMS |
|-----|---|--|
| 51. | Front Override/Underride (this Vehicle) | HIGHEST DELTA V |
| 52. | Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride | 58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection |
| | Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify): Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify): | Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. |
| | (7) Medium/heavy truck or bus override (of any configuration)(9) Unknown | All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the |
| | HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V | reconstruction program or other acceptable reconstruction technique, regardless of adequacy |
| 53. | Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown Heading Angle For This Vehicle | of damage data. (05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override |
| 54. | Heading Angle For Other Vehicle <u>B 6 0</u> | (09) Yielding object (10) Overlapping damage |
| 55. | Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown | (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify): |
| 56. | Documentation of Trajectory Data for This Vehicle (0) No (1) Yes | (98) Other, (specify): |
| 57. | Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): | |

| | COMPUTER GENERAT | ED CRASH SEVERITY |
|--|--|--|
| 59. | Total Delta V <u>0 6 3</u> | 63. Impact Speed <u>0 7 3</u> |
| | Nearest kmph (highest) Nearest kmph (secondary) | Nearest kmph (highest) |
| 60. | (NOTE: 000 means less than 0.5 kmph) (160)159.5 kmph and above (999)Unknown Highest Longitudinal Component of Delta V | Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown |
| | Nearest kmph (highest) | DELTA V CONFIDENCE LEVEL |
| | Nearest kmph (secondary) (NOTE:000 means greater than | 64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable |
| 61. | Lateral Component of Delta V 000 | OTHER SPEED ESTIMATE |
| | Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown | Highest 65. Barrier Equivalent Speed O 6 2 Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) |
| 62. | Energy Absorption 208, 800 Nearest 100 joules (highest) | (160) 159.5 kmph and above (999) Unknown |
| And the state of t | Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown | |
| | IS MISSING VEHICLE ALGORITHM APPLICATION OF THE PROGRAM SERVICE OF T | |

| ESTIMATED DELTA V | VEHICLE INSPECTION |
|---|---|
| 66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown | 67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection |
| | |

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



U.S. Department of Transportation National Highway Traffic Safety **EXTERIOR VEHICLE FORM** NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM Administration 1. Primary Sampling Unit Number 3. Vehicle Number 2. Case Number - Stratum 95-08 VEHICLE IDENTIFICATION VIN I FAL P 6 5 3 1 S K (Serial # Unithed) Built 9/94

Model Year 9 5 Vehicle Make (specify): Ford LOCATOR Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts. Specific Impact No. **Location of Direct Damage** Location of Field L Location of Max Crush Entire frontal Plane Entire frontal Plane CRUSH PROFILE IN CENTIMETERS NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space). Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts. Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush. Use as many lines/columns as necessary to describe each damage profile. **Direct Damage** Specific Plane of Impact Field Impact Width Max C2 C-Measurements C_6 C_{Λ} ±D Number L (CDC) Crush 125.7cm 89.2cm 133.4 53.1cm 65.0a 83.64 89.2a 49.54 35.1% (20.94 (25.64) (32.99) (35.14) (36.54) (-3.84) 6.1 am 18.0a 6.1cm 1.0am (2.44) (7.14) (2.4")(0.43) (0.44) 83.1 am (32.7")

VEHICLE DAMAGE SKETCH TIRE-WHEEL DAMAGE **ORIGINAL SPECIFICATIONS** WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or restricted deflated (106.59) 270.5 Wheelbase cm displaced rear axles only) RF ⊕ 8 o (183.91) 467.1 Overall Length RF LF € 3 1 0 Maximum Width (69.14) 175.5 cm $RR \pm NAO$ (2,769K)1,2560 LR ± N A 0 Curb Weight Within ± 5 degrees (58.93) 149.5 Average Track (1) Yes (2) No (8) NA (9) Unk. (36.94) 937 Front Overhang **DRIVE WHEELS** (40.5") 162.9 cm TYPE OF TRANSMISSION Rear Overhang ☑ FWD □ RWD □ 4WD ☐ Manual Automatic Undeformed End Width (57.0%) 144.8 cm END SHIFT ≥ 10 CM **Approximate** Engine Size: cyl./displ. L Cargo Weight ≈/8 ☑ Yes □ NO DO WALVAR **MEASUREMENTS IN CENTIMETERS** Front bumper rein forcemen Holorized. 197.80 (38.5°) Bun per corner 106.7 ca (42.0°) String Live Sunoot 9/03-05 from vehicle not damaged Wind shield Slazing Bumper (ormo 94.02 (37.0 °) String Live 102.9cm (40.50°) String Live Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful NOTES: in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page. Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

| - | | | CDC | WORKSH | | | | | | |
|--|-----------------|--------------------|-------------|-------------|-------------|-----------------------|---------------|---|-------------|---|
| | | (| CODES FOR | OBJECT CO | NT | ACTED | | , | | |
| (01-30) | - Vehicle Nu | ımber | | 15 | : 71 | F | | | | |
| | • | | | | - | Fence | | | | |
| Noncoll | ision | | | | - | Wall | | | | |
| | | والمراجعة المراجعة | | | | Building | | | | |
| (31) Overturn — rollover (excludes end-over-end(32) Rollover—end-over-end | | | | • | | Ditch or | culvert | | | |
| (32) | Rollover—end | l-over-end | | (6 | 31) | Ground | | | | |
| | Fire or explos | ion | | (6 | 32) | Fire hyd | rant | | | |
| | Jackknife | | | | | Curb | | | | |
| (35) | Other intrauni | it damage (speci | fy): | | | Bridge | | | | |
| | | | | | | | xed object (| enecify): | | |
| (36) | Noncollision in | njury | | , | , | | ned object (| specify/. | | |
| (38) | Other noncoll | ision (specify): | | 16 | 108 | Linknow | n fixed obje | | | |
| | | (- | | , , | ,,, | OTIKITOW | ii iixed obje | ect | | |
| (39) | Noncollision - | - details unknov | N/D | Call | :-:- | NI | | | | |
| ,,,,, | | details drikilo | AII | Colli | ISIO | n With No | onfixed Obje | ect | | |
| Collision | n With Fixed O | higgs | | () | (0) | Passeng | er car, light | truck, van, | or other | |
| // 1\ | Trop / 10 o | m in diameter) | | | | vehicle i | not in-transı | oort | | |
| (41) | Tree (\$ 10 c | m in diameter) | | (7 | 71) | Medium | heavy truc | k or bus not | in-transpor | t |
| (42) | Tree (> 10 C | m in diameter) | | (7 | 72) | Pedestri | an | | | - |
| | Shrubbery or | bush | | (7 | 7 3) | Cyclist of | or cycle | | | |
| (44) | Embankment | | | (7 | 4). | Other no | onmotorist o | or conveyan | C A | |
| | | | | · | • | | | or conveyan | CG | |
| (45) | Breakaway po | ole or post (any | diameter) | (7 | '5) | Vehicle occupant | | | | |
| | | • | • | 17 | ری ۱۵۱ | Animal | | | | |
| Nonbreakaway Pole or Post | | | | | Train | | | | | |
| (50) | Pole or post (| ≤ 10 cm in diar | neter) | | | | 4: | | | |
| (50) Pole or post (≤ 10 cm in diameter)(51) Pole or post (> 10 cm but ≤ 30 cm in | | | (7 | 0) | Trailer, (| disconnecte | d in transpo | rt | | |
| diameter) | | | (/ | 9) | Object f | ell from veh | icle in-trans | port | | |
| | | | 8) | (8) | Other no | onfixed obje | ct (specify): | | | |
| (52) Pole or post (> 30 cm in diameter)(53) Pole or post (diameter unknown) | | | | | | | | | | |
| (55) | role of post (| piameter unknov | vn) | (8 | (9) | Unknow | n nonfixed | object | | |
| (E.A) | C | | | | | | | • | | |
| | Concrete traff | | | (9 | (8) | Other ev | ent (specify | /): | | |
| | Impact attenu | | | | | | | •- | | |
| (56) | Other traffic b | arrier (includes | guardrail) | (9 | 9) | Unknow | n event or o | hiect | | |
| | (specify): | | | | · | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | | | | | | | | | | |
| | | DEFORMAT | TION OLASS | IFICATION E | . | C) /C) IT) . | | | | _ |
| | | DEI OTTIVIA | HON CLASS | IFICATION E | 3 Y | | | | | |
| Accident | | (1) (2) | | | | (4) | (5) | | | |
| Event | | Direction | Incremental | (3) | | Specific | Specific | _ (6) | | |
| Sequence | Object | of Force | Value of | Deformation | | ngitudinal | Vertical or | Type of | (7) | |
| Number | Contacted | (degrees) | Shift | Location | | r Lateral .ocation | Lateral | Damage | Deformation | |
| | | | | | | .ocation | Location | Distribution | Extent | |
| 01 | 02 | 360 | 40 | F | | \mathcal{D} | - | | ., | |
| | | | | <i></i> | | ⊥/_ | E | w | 04 | |
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| Tational 7.00. | | | DEFORMA | | | | Page |
|---|--|--|---------------------------------|---|--|---|--|
| HIGHEST | DELTA "V" | | 545 | TION OLAS | SILICATIO | V | |
| Accident Event Sequence Number | Object Contacted | (1) (2) Direction of Force | (3) Deformation Location | (4) Longitudinal or Lateral Location | (5) Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent |
| 4. <u>0</u> / | 5. <u>0</u> 2 | 6. <u>5</u> 2 | 7. <u> </u> | 8 | 9. <u>E</u> | 10. <u>W</u> | 11. 0 4 |
| Second High | ighest Delta "V | /" | | | | - | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | | CRUS | H PROFILE | IN CENTIM | ETERS | | |
| Cont. | The crush pro- in the appr | file for the dan opriate space | mage described below. (ALL M | in the CDC(s) : IEASUREMENT | above should ! S ARE IN CEN | be documente TIMETERS.) | d |
| HIGHEST (| DELTA "V" | | | | | | |
| 20. | 21. | | | C ₄ | C ₅ (| | 22. |
| 145 (57.0") | 032 | 047 (18.5") (| <u>064</u> (25.2°) (| 2 <u>83 o</u> 32.59 (3 | <u>83</u> 0 | <u>75 </u> | <u>? </u> |
| | ghest Delta "V' | | | | | | |
| 23. | 24. | | | | C ₅ , (| C ₆ | 25. ±D |
| | | | | | | | |
| (Coded impact in (250) (998) | 250 centimeters | severity e impact.) earest centimete | | (650) 6 (999) U | Code to the neacentimeter 650 centimeters Unknown inches X 2 | rs or more | 27 / (106.5 *) |
| (For hig (250) | Damage Width phest severity in Code to the nea 250 centimeters Unknown | arest centimete | 1 2 6 er (49.5") | (185) 1 (999) L | Average Track Code to the nea centimter 185 centimeters Unknown inches X 2 | arest _ | 1 5 0 (58.9 4) |

| | | | FUEL SYSTEM |
|--|----------|-----|---|
| Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes Researcher's Assessment of Vehicle | <u>0</u> | 36. | Location of Fuel Tank-1 Filler Cap Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane (3) Aft of center of the rear wheels (rear axle) |
| Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown Is This A Multi-Stage Manufactured Vehicle | 0 | | on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear |
| And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): | <u></u> | | axle) on right side plane (8) Other (specify): (9) Unknown Type of Fuel Tank-1 |
| (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified | | | Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown |
| FIRE OCCURRENCE | | | Location of Fuel Tank-1 |
| Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown | 0 | | Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear |
| Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown | 0 | 41. | axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): |

| 1 | | | | | |
|------------|---|-----------|---------------------------------------|---|-----|
| 45. 46. | Leakage Location of Fuel System-1 Leakage Location of Fuel System-2 (0) No fuel tank (1) No fuel leakage Primary Area Of Leakage (2) Tank (3) Filler neck (4) Cap (5) Lines/pump/filter (6) Vent/emission recovery (8) Other (specify): (9) Unknown Fuel Type-1 Fuel Type-2 Single Fuel Type (00) No fuel tank (01) Gasoline (02) Diesel (03) CNG (Compressed Natural Gas) (04) LPG (Liquid Petroleum Gas) also known as Propane (05) LNG (Liquid Natural Gas) (06) Methanol (M100 or M85) (07) Ethanol (E100 or E85) (08) Other (Hydrogen or others) (specify): | 0 1 00 | Yes (1) (2) | is Vehicle Equipped With More Than Fuel Tanks? No (one or two tanks only) - More Than Two Tanks Yes no damage to any tank or filler cap and no fuel system leakage Yes no damage to any tank or filler cap but there is fuel system leakage (specify leakage location): Yes damage to an additional tank or filler cap and there is fuel system leakage (specify the following): Type of tank Tank location Filler cap location Tank damage Location of leakage Type of fuel Unknown if more than two tanks COMMENTS | 0 |
| 45. | Fuel Type-1 | 0 1 | | Filler cap location | |
| 46 | F. I.T. O | | | Tank damage | |
| 40. | Fuel Type-2 | 00 | | Location of leakage | |
| | Single Fuel Time | | , | Type of fuel | |
| | | | (9) | Unknown if more than two tanks | |
| | | | - | | |
| | | | | | — |
| | (03) CNG (Compressed Natural Gas) | | | COMMENTS | |
| | (04) LPG (Liquid Petroleum Gas) also | | | | ı |
| | known as Propane | | | | |
| | (05) LNG (Liquid Natural Gas) | | | | |
| | (07) Ethanol (E100 or E95) | | | | |
| | | | | | |
| | | | - | | I |
| | | _ | | | |
| | Electric Powered or Electric/Solar | | | | 1 |
| | Powered Vehicles (10) Lead Acid Battery | | | | |
| | (11) Nickel-Iron Battery | | | | ı |
| | (12) Nickel-Cadmium Battery | | | |] |
| | (13) Sodium Metal Chloride Battery | | | | İ |
| | (14) Sodium Sulfur Battery | | | | ļ |
| | (18) Other (Specify): | | | | |
| | (99) Other Unbrid (or and) | | | | |
| | (98) Other Hybrid (specify): | - | - | | |
| | | | | | |
| (| (99) Unknown fuel type | | | | - 1 |
| | ,, | 1 | | | |
| | | | | | |
| | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | | |
| | *** STOP: IF THE CDS API | PLICABI F | E VEHICI | E WAS NOT TOWED *** | |
| | | | - + -: 1101 | E WAS NOT TOWED " " " | J |
| | | (GV10 | 0 = 0 | | • |
| | DO NOT COME: | · | | | |
| | DO NOT COMPLET | FIHEIN | NTERIOR | VEHICLE FORM. | |

L

National Highway Traffic Safety Administration

| 1. | Primary | Sampling | Unit | Number |
|----|---------|----------|------|--------|
| | | | | |

2. Case Number - Stratum

95-08

3. Vehicle Number

01

INTEGRITY

4. Passenger Compartment Integrity (00) No integrity loss

<u>98</u>

Yes, Integrity Was Lost Through

- (01) Windshield
- (02) Door (side)
- (03) Door/hatch (back door)
- (04) Roof
- (05) Roof glass
- (06) Side window
- (07) Rear window (backlight)
- (08) Roof and roof glass
- (09) Windshield and door (side)
- (10) Windshield and roof
- (11) Side and rear window (side window and backlight)
- (12) Windshield and side window
- (13) Door and side window
- (98) Other combination of above (specify):

(99) Unknown

Door, Tailgate or Hatch Opening

5. LF / 6. RF 3 7. LR / 8. RR / 9. TG/H 0

- (0) No door/gate/hatch
- (1) Door/gate/hatch remained closed and operational
- (2) Door/gate/hatch came open during collision
- (3) Door/gate/hatch jammed shut
- (8) Other (specify):

(9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

10. LF<u>O</u> 11. RF<u>O</u> 12. LR<u>O</u> 13. RR<u>O</u> 14. TG/H<u>O</u>

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

GLAZING

Type of Window/Windshield Glazing

15. WS / 16. LF 2 17. RF 2 18. LR 2 19. RR 2

20. BL 2 21. Roof 3 22. Other O

- (0) No glazing
- (1) AS-1 Laminated
- (2) AS-2 Tempered
- (3) AS-3 Tempered-tinted (original)
- (4) AS-2 Tempered-with after market tint
- (5) AS-3 Tempered-tinted (with additional after market tint)
- (6) AS-14 Glass/Plastic
- (7) Glazing removed prior to accident
- (8) Other (specify):
- (9) Unknown

Window Precrash Glazing Status

23. WS <u>/</u> 24. LF <u>2</u> 25. RF <u>2</u> 26. LR <u>2</u> 27. RR <u>2</u>

28. BL / 29. Roof 2 30. Other 0

- (0) No glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (7) Glazing removed prior to accident
- (9) Unknown

Glazing Damage from Impact Forces

31. WS_3 32. LF_/ 33. RF_6 34. LR_/ 35. RR_/

36. BL <u>/</u> 37. Roof <u>/</u> 38. Other O

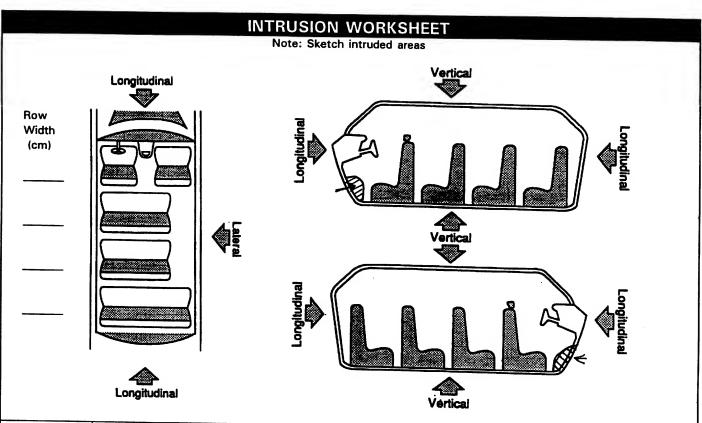
- (0) No glazing
- (1) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

39. WS<u>/</u> 40. LF<u>/</u> 41. RF<u>/</u> 42. LR<u>/</u> 43. RR <u>/</u>

44. BL 1 45. Roof 1 46. Other 0

- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (6) Glazing out-of-place by occupant contact and holed by occupant contact
- (7) Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant



| LOCATION | | (All | Measur | rements Are In Centir | neter | (2 | DOMINANT |
|-----------------|---|---|--------------|-----------------------|-------|----------------------------|--------------|
| OF INTRUSION | INTRUDED COMPONENT | COMPARISON VALUE | | INTRUDED | | INTRUSION | CRUSH |
| | | | - | VALUE | = | 21/2 | DIRECTION |
| | Tocated @ forward | Toe paw edjace at to // Plastic and foot rost (45. | 8") | (32.0") | = | 34.9cm (13.81) | Longitudian |
| | edge of plastic mat 40.6 cm (16") L of t | Plastic Mat foot rest 108.74 (42.8") | | 81.3am (32.0") | = | 27.4an (10.8") | Longitudina |
| | | | _ | | = | | 0 |
| 11 | Brake pedal | 103.6 cm (40.8°) | _ | 83.8cm (33.0°) | = | 19.8 cm (7.8") | Longitudinal |
| | | | _ | | = | | |
| 13 | TOE Pave Flow pan 30.5 cm (2) (Dof) & | 120.7cm (47.5") | _ | 64.8cm (25.54) | = | 55.9cm (22.0") | Longitudinal |
| 13 | Right upper corner of fastiument panel | 72.4cm (28.5°) | _ | 53.3 cm (21.0°) | = | 19.1 cm (7.5°) | Lougitudinal |
| 7 | | | _ | | = | <u> </u> | 9., |
| 21 | second sent back rest from book in trunk | 80.0 cm (31.5°) | | 63.5cm (25.0°) | = | 16.5 cm (6.5") | Long: tudian |
| 22 | И | (31.5") | _ | 64.8 am (25.5") | = | 15.2 cm | 1 |
| 23 | u . | 80.0cm (31.54) | | 71.1 cm (28.0") | = | (6.0") 8.9 au (3.5") | Longitudian! |
| | | | _ | | = | | 0 |
| | | | _ | | = | | |
| | | | _ | | = | | |
| | 7 | | _ | | = | | |

OCCUPANT AREA INTRUSION

| Note | Note: If no intrusions, leave variables IV47-IV86 blank. | | | | | | | |
|------|--|------------------------|------------------------|-------------------------------|--|--|--|--|
| | Location of Intrusion | Intruding Component | Magnitude of Intrusion | Dominan Crush Direction | | | | |
| 1st | 47. <u>/</u> 3 | 48. <u>0</u> 5 | 49. <u>5</u> | 50. <u>2</u> | | | | |
| 2nd | 51. <u>/</u> /_ | 52. <u>05</u> | 53. <u>4</u> | 54. <u>2</u> | | | | |
| 3rd | 55//_ | 56. <u>2</u> 7 | 57. <u>3</u> | 582 | | | | |
| 4th | 59. <u>/</u> 3 | 60. <u>0</u> 4 | 61. <u>3</u> | 62. 2 | | | | |
| 5th | 63. <u>2</u> | 64. <u>2</u> _ / | 65. <u>3</u> | 66. 2 | | | | |
| 6th | 67. <u>2</u> <u>2</u> | 68. <u>2</u> 1 | 69. <u>3</u> | 70. <u>2</u> | | | | |
| 7th | 71. <u>23</u> | 722_1_ | 73. <u>2</u> | 74. <u>2</u> | | | | |
| 8th | 75 | 76 | 77 | 78 | | | | |
| 9th | 79 | 80 | 81 | 82 | | | | |

LOCATION OF INTRUSION

Front Seat (11) Left

(12) Middle

(13) Right

Second Seat (21) Left (22) Middle

(23) Right

Third Seat

(31) Left (32) Middle (33) Right

Fourth Seat

10th 83.____ 84.___ 85.___ 86.

(41) Left

(42) Middle

(43) Right

(97) Catastrophic

(98) Other enclosed area (specify)

(99) Unknown

INTRUDING COMPONENT

Interior Components

(01) Steering assembly

(02) Instrument panel left

(03) Instrument panel center

(04) Instrument panel right

(05) Toe pan (06) A (A1/A2)-pillar

(07) B-pillar

(08) C-pillar

(09) D-pillar

(10) Side panel - forward of the A1/A2-pillar

(11) Door panel (side)

(12) Side panel - rear of the B-pillar

(13) Roof (or convertible top)

(14) Roof side rail

(15) Windshield

(16) Windshield header

(17) Window frame

(18) Floor pan (includes sill)

(19) Backlight header

(20) Front seat back

(21) Second seat back

(22) Third seat back

(23) Fourth seat back

(24) Fifth seat back

(25) Seat cushion

(26) Back door/panel (e.g., tailgate)

(27) Other interior component (specify):

Brake pedal

Exterior Components

(30) Hood

(31) Outside surface of this vehicle (specify):

(32) Other exterior object in the environment (specify):

(33) Unknown exterior object

(97) Catastrophic

(98) Intrusion of unlisted component(s) (specify):

(99) Unknown

MAGNITUDE OF INTRUSION

(1) ≥ 3 centimeters but < 8 centimeters

(2) \geq 8 centimeters but < 15 centimeters

(3) \geq 15 centimeters but < 30 centimeters

(4) \geq 30 centimeters but < 46 centimeters

(5) \geq 46 centimeters but < 61 centimeters

(6) ≥ 61 centimeters

(7) Catastrophic

(9) Unknown

DOMINANT CRUSH DIRECTION

(1) Vertical

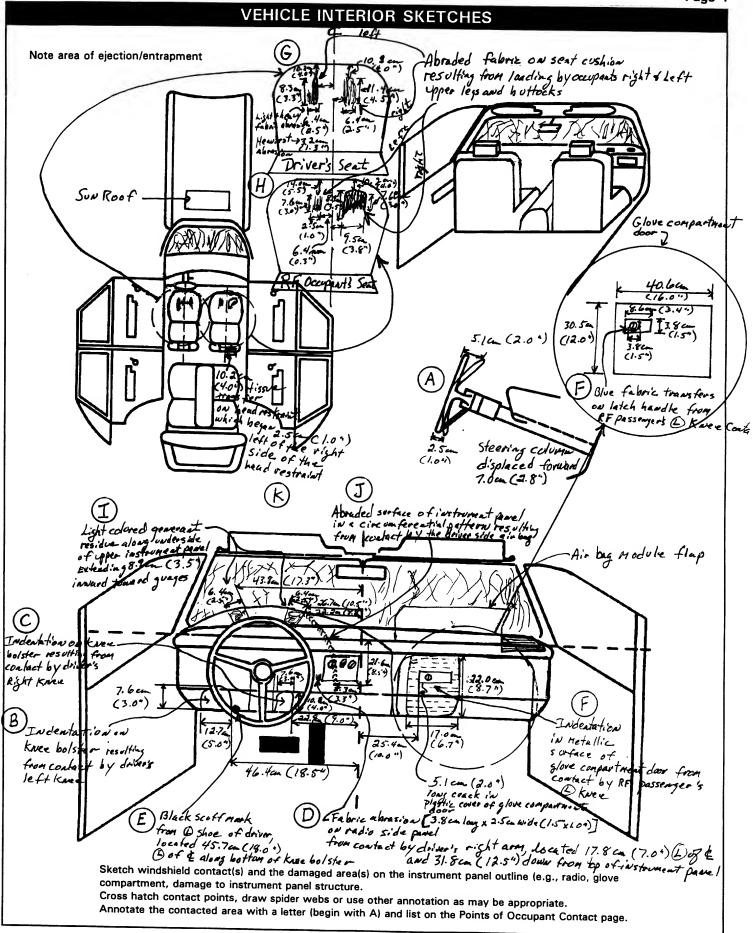
(2) Longitudinal

(3) Lateral

(7) Catastrophic

(9) Unknown

| STEERING COLUMN | INSTRUMENT PANEL | | |
|---|---|--|--|
| 87. Steering Column Type (1) Fixed column | 92. Odometer Reading/ | | |
| (2) Tilt column(3) Telescoping column(4) Tilt and telescoping column(8) Other column type (specify): | kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more | | |
| (9) Unknown | (999) Unknown 6, 7, 4, 4 miles x 1.6093 =/Q, <u>\$5</u> 3 kilometers | | |
| 88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown | Source: 93. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown 94. Type of Knee Bolster Covering (0) No knee bolster | | |
| 89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown | (1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown 95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown | | |
| 90. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown | 96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown 97. Adaptive (Assistive) Driving Equipment | | |
| 91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown | (0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify): (9) Unknown | | |
| | | | |



MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

| | | Left | Center | Right |
|--------|----------------------|------|--------|--------------------|
| | Availability | 4 | | 4 |
| F | Evidence of usage | 00 | N/A | 04 |
| I R | Used in this crash? | 00 | | 04 |
| s | Proper Use | 00 | | |
| Т | Failure Modes | 00 | | i |
| | Anchorage Adjustment | 2 | | 4- lantch above |
| | Availability | 4 | 3 | 4- lastch above to |
| s | Evidence of usage | 00 | 00 | 00 |
| SECO | Used in this crash? | 00 | CD | 00 |
| ŏ | Proper Use | 00 | 00 | 00 |
| Ň | Failure Modes | 00 | 00 | 20 |
| | Anchorage Adjustment | 00 | 00 | 00 |
| | Availability | | | |
| 0 | Evidence of usage | | | |
| T | Used in this crash? | | | |
| H E | Proper Use | | | |
| Ŕ | Failure Modes | | | |
| | Anchorage Adjustment | | | |

| Manna | II (Active) Belt System Availability |
|-------|--------------------------------------|
| (O) | None available |
| (1) | Belt removed/destroyed |

- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- Lap belt (shoulder belt destroyed/removed)
- Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- Shoulder belt (02)
- (03)Lap belt
- Lap and shoulder belt (04)
- (05)Belt used - type unknown
- (80) Other belt used (specify):
- Shoulder belt used with child safety (12)
- (13)Lap belt used with child safety seat
- (14)Lap and shoulder belt used with child safety seat
- Belt used with child safety seat -(15)type unknown
- (18)Other belt used with child safety seat (specify):
- (99)Unknown if belt used

Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1)Belt used properly
- (2)Belt used properly with child safety

Belt Used Improperly

- (3)Shoulder belt worn under arm
- Shoulder belt worn behind back or (4)seat
- Belt worn around more than one (5) person
- (6) Lap belt worn on abdomen
- Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Manual (Active) Belt Failure Modes During

Accident

- (0) No manual belt used or not available
- (1)No manual belt failure(s)
- Torn webbing (stretched webbing (2)not included)
- (3)Broken buckle or latchplate
- (4)Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7)Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

Shoulder Belt Upper Anchorage Adjustment

- (0) No shoulder belt
- (1)No upper anchorage adjustment for shoulder belt

Adjustable shoulder Belt Upper Anchorage

- In full up position (2)
- (3) In mid position
- (4)In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

| | | POI | NTS OF OCC | CUPANT CONTACT | | |
|--|--|-----------------------------|---|--|--|---|
| Contact | Interior Component Contacted | Occupant No. If Known | Body Region If Known | Supporting Physical E | vidence | Confidence Level of Contact Point |
| Α | 004 | 01 | upper torso | Steering rin (upper & Lower) de | | 1 |
| В | 014 | 01 | (1) Knee | Indentation | 1 | 1 |
| С | 014 | 01 | 1 Knee | Indention | | 1 |
| D | 011 | 01 | Darn | Fabric a brosion on radio | side no mal | 2 |
| E | 014 | 01 | D fost | Black transfer | Jac Page | 2 |
| F | 014 | 02 | @Kree/Loules | Large indentation of g | love c aren to that | for 1 |
| G | 151 | 01 | | Deep fabric abrasions of seat | cushis | 1 |
| Н | 151 | 02 | | Deep fabric dorasion A sent | | 1 |
| ı | 010 | | | Light colored in bug general | t residue | , |
| J | 010/011 | | | Abraded Surface in a circumfer | reatifications hugi | ha. I |
| K | 1.55 | 02 | Head | Abraded Surface, in a circumfe, Tissue transfer which measured 10. | 20x3.80 (4.0"x) | 1 |
| L | | | | | | |
| М | | | | | | |
| N | | | | | | |
| (006) Steering of codes (007) Steering column,t selector attachme (008) Cellular 1 radio (009) Add on a deck, air (010) Left instribelow (011) Center in below (012) Right ins below (013) Glove co (014) Knee bol (015) Windshie more of header, instrume steering side only (016) Windshie more of header, instrume (passeng (017) Windshie exterior (017) | wheel hub/spoke wheel (combination 004 and 005) ransmission ever, other ent elephone or CB equipment(e.g., tape conditioner) ument panel and trument panel and trument panel and mpartment door ster eld including one or the following: front A (A1/A2)-pillar, nit panel, mirror, or assembly (driver | exclude armre: (052) | de hardware or st (A1/A2)-pillar -pillar (specify): de window glass de window glass de window glass ing one or more of the ing: frame, window (A1/A2)-pillar, B-pillar f side rail. left side object fy): side interior surface, ling hardware or st (A1/A2)-pillar B-pillar right pillar (specify): side window glass side window glass side window glass side window glass ing one or more of the ing: frame, window (A1/A2)-pillar, B-pillar f side rail. right side object | (163) Other interior object (specify): AIR BAG (170) Air bag-driver side (175) Air bag compartment cover-driver side (180) Air bag-passenger side (185) Air bag compartment cover-passenger side (190) Other air bag (specify) (195) Other air bag compartment cover (specify) ROOF (201) Front header (202) Rear header (203) Roof left side rail (204) Roof right side rail (205) Roof or convertible top FLOOR (251) Floor (including toe pan) (252) Floor or console mounted transmission lever, including console | (302) Backlight stora door, etc. (303) Other rear objective (ASSISTIVE (ASSISTIVE (AUT) Hand controls braking/accele (402) Steering control (AUT) (AUT) Hand controls braking/accele (403) Steering knob steering wheel (405) Replacement s (i.e., reduced (406) Joy stick steer (407) Wheelchair tel (408) Modification to (specify): (409) Additional or r switches, (specify): (410) Raised roof (411) Wall mounted (used behind to (412) Other adaptive (specify): | /E) DRIVING for ration ol devices EM steering attached to teening wheel diameter) ring controls downs o seat belts, elocated cify): head rest wheel chair) a device |
| | | | | | CONFIDENCE LEVEL POINT (1) Certain (2) Probable (3) Possible (9) Unknown | OF CONTACT |

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

| 100 | | Left Front | Right Front | Other |
|-----|-----------------------|------------|-------------|-------|
| FIR | Availability/Function | | | 0 |
| | Deployment | j. | _1 | 0 |
| T | Failure | 1 | 1 | 0 |

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an <u>"other"</u> air bag
 (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

AUTOMATIC BELTS

| | | Left | Right |
|---|-----------------------|------|-------|
| | Availability/Function | 0 | 0 |
| F | Use | / | / |
| R | Туре | | |
| S | Proper Use | | |
| | Failure Modes | / | / |

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- Non-motorized system
- (2) Motorized system
- (9) Unknown

Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under
- (4) Automatic shoulder belt worn behind
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

Automatic (Passive) Belt Failure Modes **During Accident**

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- Broken buckle or latchplate
- Upper anchorage separated
- (5) Other anchorage separated (specify):
- Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

| | Driver | Passenger | |
|---------------------------------|---------------|-------------------|--|
| Type of air bag? | | 1 | |
| Flaps open at tear points? | 2 | 2 | |
| Flaps damaged? | | 1 Getomation of a | |
| Air bag damaged? | 01 | 04- | |
| Source of air bag damage | 01 | 88 | |
| Air bag tethered? | 2 - 4 tethers | | |
| Air bag have vent ports? | 2 - 2 vents | 2 - 1 vest | |
| Other occupant contact air bag? | | 1 | |
| Occupant wearing eyewear? | j | i | |

Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):

 Interaction with Hefalliz edge of air bag
- (95) Damaged, unknown source +/
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Did The Air Bag Have Vent Ports?

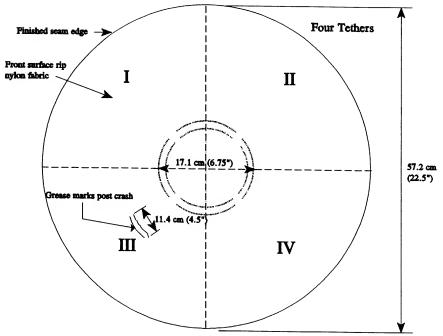
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports
- 7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

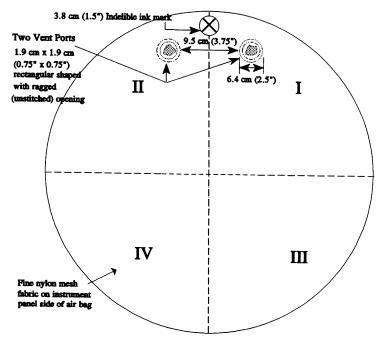
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was This Occupant Wearing Eye-wear?

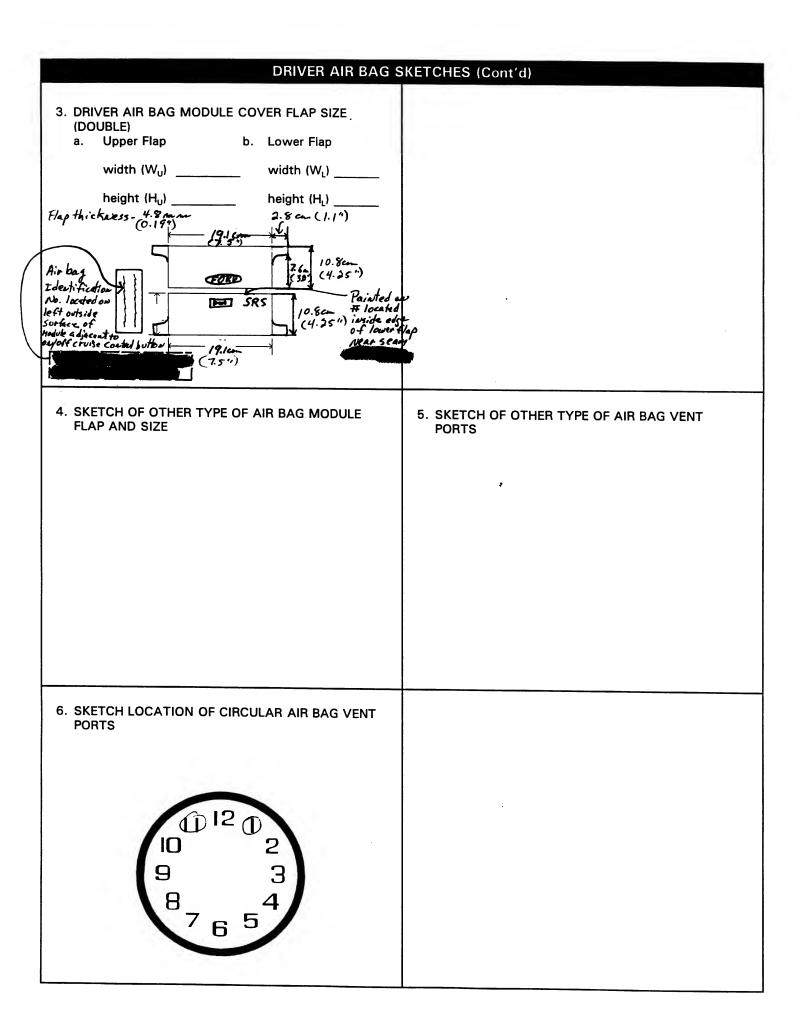
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

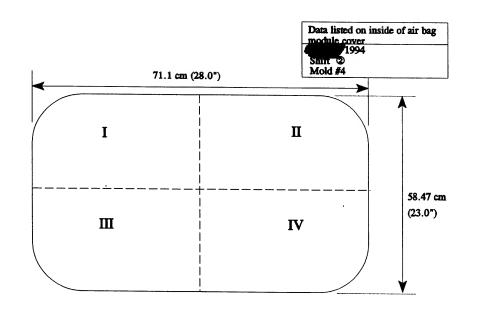


Tethered Driver Side Air Bag of Vehicle #1 (Front Side)

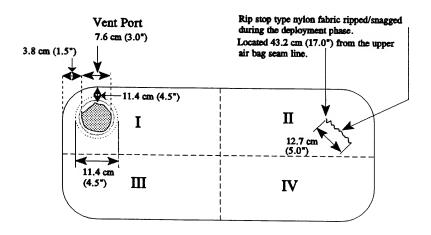


Tethered Driver Side Air Bag of Vehicle #1 (Reverse Side)





Front Surface of Passenger Side Air Bag of Vehicle #1



Instrument Panel Side (Rear) of the Passenger Side Air Bag of Vehicle #1

| PASSENGER AIR BA | G SKETCHES (Cont'd) |
|--|---|
| 3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap width (W) height (H) 14.6a (5.75*) \$\$SRS\$ (9.5*) 45.3 ca (17.8") | 4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (Wu) width (WL) height (Hu) height (HL) Hu Hu Wu |
| 5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE | 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS |
| 7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS 10 11 12 1 2 9 3 8 7 6 5 4 | |

| "OTHER" I | DAMAGE AND | CONTACT | CVETCHEC |
|-----------|------------|---------|-----------|
| OIIILA I | DAWANE AND | UUNIAU | 3KF11.HF3 |

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)

NA

2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)

NA

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

| | | Left | Center | Right |
|--------|-----------------------------------|-------------------------|--------|-------------------------------------|
| | Head Restraint Type/Damage | 3 - Adj. Same | | 3-Adj. down |
| F | Seat Type | 01 | | 01 |
| Î R | Seat Performance | 1- Floor inspire | | 1- Track ican d |
| S | Seat Orientation | 1 | | 1 |
| 1 | Seat Track Position | 5 | | 1- Track janued 1 4- Probable |
| | Seat Back Incline Pre/Post Impact | 20° reenward of Vertice | 1 | 10° reamond of ver |
| | Head Restraint Type/Damage | 0 | 0 | 0 |
| s | Seat Type | 03 | 0.3 | 03 |
| Ē C | Seat Performance | 6 | 6 | 6 |
| 0 | Seat Orientation | 1 | J | ĺ |
| N D | Seat Track Position | 1 | 1 | i |
| | Seat Back Incline Pre/Post Impact | 01 | 01 | 01 |
| | Head Restraint Type/Damage | | | |
| Т | Seat Type | | | |
| H | Seat Performance | | | |
| Ŕ | Seat Orientation | | | |
| D | Seat Track Position | | | |
| | Seat Back Incline Pre/Post Impact | | | |
| | Head Restraint Type/Damage | | | |
| 0 T | Seat Type | | | |
| Ĥ | Seat Performance | | | |
| E R | Seat Orientation | | | |
| | Seat Track Position | | | |
| | Seat Back Incline Pre/Post Impact | | | |

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Occupant at This Occupant Position Position)

- (0) No head restraints
- (1) Integral no damage (2) Integral damaged during accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage(6) Add-on damaged during accident
- Other (8) Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01)**Bucket**
- (02)Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05)Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07)Split bench with folding back(s)
- (80)Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant

- (0) Occupant not seated or no seat
- No seat performance failure(s)
- Seat adjusters failed
- Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4)Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

Seat Track Adjusted Position Prior To Impact

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2) Seat at forward most track position
- (3) Seat between forward most and middle track positions
- (4) Seat at middle track position
- (5) Seat between middle and rear most track positions
- (6) Seat at rear most track position
- (9) Unknown

Seat Back Incline Prior and Post Impact

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

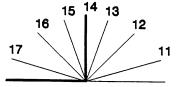
- (11) Moved to completely rearward
- (12)Moved to rearward midrange position
- (13)Moved to slightly rearward position
- (14)Retained pre-impact position
- Moved to slightly forward (15) position
- Moved to forward midrange (16)position
- (17)Moved to completely forward position

Slightly reclined prior to impact

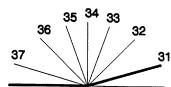
- (21) Moved to completely rearward position
- (22)Moved to rearward midrange position
- (23)Retained pre-impact postion
- (24)Moved to upright position
- (25)Moved to slightly forward position
- (26)Moved to forward midrange position
- (27)Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- Moved to rearward midrange (32)position
- (33)Moved to slightly rearward position
- (34)Moved to upright position
- (35)Moved to slightly forward position
- (36)Moved to forward midrange position
- (37)Moved to completely forward position
- (99) Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

| | Ε | JECTION/I | ENTRAP | MENT DA | TA | | | |
|---|---|---|---------------------------|---|---------------------|-------------|-----------|----------|
| Con in th | nplete the following if the researche vehicle. Code the appropriate | cher has any i data on the | indication the Occupant A | nat an occup Assessment F | ant was eit orm. | her ejected | from or e | ntrapped |
| | CTION No [1] Yes [] cribe indications of ejection and | | volved in p | artial ejection | ı(s): | | | |
| | | | | | | | | |
| | Occupant Number | | | | | | | |
| | Ejection | | | | | | | |
| | (Note on Vehicle Interior Sketch) Ejection Area | | | | | | | |
| | Ejection Medium | | | | | | | |
| | Medium Status | | | | | | | |
| Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear | | (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): | | (5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown | | | | |
| (6 |) Right rear) Rear | [] | | | | | | |
| | cribe entrapment mechanism: | | | | | | | |
| Com | ponent(s): | | | | | | | |
| (Not | e in vehicle interior diagram) | | | | | | | |



U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety Administration O.M.B. No. 2127-0021
NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

| 1. Primary Sampling Unit Number | OCCUPANT'S SEATING |
|---|---|
| 2. Case Number - Stratum 95-08 | 10. Occupant's Seat Position Front Seat |
| 3. Vehicle Number | (11) Left side |
| | (12) Middle (13) Right side |
| 4. Occupant Number | (14) Other (specify): |
| OCCUPANT'S CHARACTERISTICS | (15) On or in the lap of another occupant |
| 5. Occupant's Age | Second Seat |
| Code actual age at time of accident. | (21) Left side |
| (00) Less than one year old (specify by month): | (22) Middle (23) Right side |
| (97) 97 years and older | 124) Other territ |
| (99) Unknown | (25) On or in the lap of another occupant |
| | Third Seat |
| 6 0000000000000000000000000000000000000 | (31) Left side |
| 6. Occupant's Sex (1) Male | (32) Middle |
| (2) Female-not reported pregnant | (33) Right side (34) Other (specify): |
| (3) Female-pregnant-1st trimester(1st-3rd month) | (35) On or in the lap of another occupant |
| (4) Female-pregnant-2nd trimester(4th-6th month)(5) Female-pregnant-3rd trimester(7th-9th month) | Fourth Seat |
| (6) Female-pregnant-term unknown | (41) Left side |
| (9) Unknown | (42) Middle |
| | (43) Right side |
| | (44) Other (specify):(45) On or in the lap of another occupant |
| 7. Occupant's Height 999 | |
| Code actual height to the nearest centimeter. | (97) In or on unenclosed area |
| (999) Unknown | (98) Other seat (specify): |
| inches V 2 F4 | |
| inches X 2.54 = centimeters | |
| 8. Occupant's Weight 7 9 9 | 11. Occupant's Posture |
| Code actual weight to the nearest kilogram. | (O) Normal posture |
| (999)Unknown | Abnormal posture |
| | (1) Kneeling or standing on seat (2) Lying on or across seat |
| pounds X .4536 = kilograms | (3) Kneeling, standing or sitting in front of cost |
| 9. Occupant's Role | occupant or to look out a rear window |
| (1) Driver (2) Passenger | (5) Sitting on a console |
| (9) Unknown | (6) Lying back in a reclined seat position(7) Bracing with feet or hands on a surface in front |
| |) Or seat |
| | (8) Other abnormal posture (specify): |
| | (9) Unknown |
| | |
| | |
| | |
| | |

| | E IEC. | TION/EN | NTRAPMENT |
|-----|---|----------|---|
| | LJEC | TION/EI | NI NAPIVICINI |
| 12. | Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown | <u>.</u> | 15. Medium Status (Immediately Prior To Impact) |
| | Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown | <u>o</u> | 16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown |
| | | | |

| BELT SYSTEM | A FUNCTION |
|---|---|
| 18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): | 22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment |
| (9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown | 23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown |
| (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat **Belt Used Improperly** (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown 21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): | 25. Automatic (Passive) Belt System Type (O) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (O) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly (2) Automatic belt used properly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (O) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (5) Other automatic belt failure (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): |

| POLICE REPORTED RESTRAINT USE | AIR BAG SYSTEM FUNCTION |
|---|---|
| 28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" | 30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown |
| Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): | 32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: |
| | 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown |

| FIRST SEAT FROM | NTAL AIR BAG SYSTEM EVALUATION |
|---|---|
| | |
| 35. Had Vehicle Been in Previous Accident(s) (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployme (3) One previous accident with deployme (4) More than one previous accident with one deployment (8) Previous accidents, unknown deployments status (9) Unknown | Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal |
| 36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown | (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed |
| 37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown | 42. Were Air Bag Module Cover Flap(s) Damaged? (O) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged |
| 38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequent number that initiated the air backdeployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown | 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut |
| 39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown | (04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown |

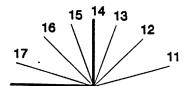
| FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued | HEAD RESTRAINT AND SEAT EVALUATION |
|--|--|
| 44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed | 49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench |
| (99) Unknown 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown | (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat |
| 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown | (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat |
| 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown | (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown |
| 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyegiasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown | |

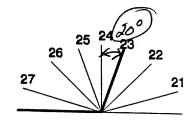
| HEAD RESTRAINT AND SEAT E | EVALUATION | continued |
|---------------------------|------------|-----------|
|---------------------------|------------|-----------|

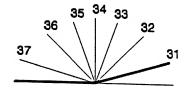
| | | HEAD RESTRAINT | | |
|-----|--|---|-------|----------|
| 53. | (00) | Back Incline Prior and Post Impact Occupant not seated or no seat Not adjustable | 2 | 3 |
| | (11) (12) (13) | Retained pre-impact position Moved to slightly forward position Moved to forward midrange position | n | |
| ٠ | (21) (22) (23) (24) (25) (26) | Moved to completely rearward position Moved to rearward midrange position Retained pre-impact position Moved to upright position Moved to slightly forward position Moved to forward midrange position Moved to completely forward position Moved to completely forward position | n | • |
| | (31) (32) (33) (34) (35) (36) (37) | Retained prior to impact Retained pre-impact position Moved to rearward midrange position Moved to slightly rearward position Moved to upright position Moved to slightly forward position Moved to forward midrange position Moved to completely forward position Unknown | | |
| 54. | (1) N (2) S (3) S (4) S (5) C (6) C | Performance (this Occupant Position) Occupant not seated or no seat Ito seat performance failure(s) Seat adjusters failed Seat back folding locks or "seat back" Specify): Specify): Seat track/anchors failed Deformed by impact of occupant Deformed by passenger compartment Intrusion, (specify): | | - ded |

(7) Combination of above (specify):

(8) Other (specify): _ (9) Unknown







CHILD SAFETY SEAT 55. Child Safety Seat Make/Model 58. Child Safety Seat Harness Usage (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing 59. Child Safety Seat Shield Usage (950) Built-in child safety seat (997) Other make/model (specify): 60. Child Safety Seat Tether Usage (998) Unknown make/model (999) Unknown if child safety seat used Note: Options below applicable to Variables OA58-OA60 (00) No child safety seat 56. Type of Child Safety Seat 0 (0) No child safety seat Not Designed With Harness/Shield/Tether (1) Infant seat (01) After market harness/shield/tether (2) Toddler seat added, not used (3) Convertible seat (02) After market harness/shield/tether used (4) Booster seat - with shield (03) Child safety seat used, but no after market (5) Booster seat - without shield harness/shield/tether added (7) Other type child safety seat (specify): (09) Unknown if harness/shield/tether added or used (8) Unknown child safety seat type (9) Unknown if child safety seat used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used 57. Child Safety Seat Orientation (19) Unknown if harness/shield/tether used (00) No child safety seat Unknown If Designed With Harness/Shield/Tether Designed for Rear Facing for This Age/Weight (21) Harness/shield/tether not used (01) Rear facing (22) Harness/shield/tether used (02) Forward facing (29) Unknown if harness/shield/tether used (08) Other orientation (specify): (99) Unknown if child safety seat used (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

INJURY CONSEQUENCES 61. Injury Severity (Police Rating) 63. Type Of Medical Facility (for Initial Treatment)___((0) Not treated at a medical facility (0) O - No injury (1) C - Possible injury (1, Trauma center (2) B - Nonincapacitating injury (2) Hospital (3) A - Incapacitating injury (3) Medical clinic (4) K - Killed (4) Physician's office (5) Treatment later at medical facility (5) U - Injury, severity unknown (6) Died prior to accident (8) Other (specify): (9) Unknown (9) Unknown 62. Treatment - Mortality 64. Hospital Stay (0) No treatment (00) Not Hospitalized (1) Fatal (2) Fatal - ruled disease (specify): Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more Nonfatal (99) Unknown (3) Hospitalization (4) Transported and released 65. Working Days Lost (5) Treatment at scene - nontransported Code the number of days (6) Treatment later (up through 60) that the occupant (7) Treatment - other (specify): lost from work due to the accident (00) No working days lost (8) Transported to a medical facility-unknown if (61) 61 days or more treated (62) Fatally injured (97) Not working prior to accident (9) Unknown (99) Unknown STOP WORK HERE

VARIABLES 66-74

| INJURY CONSEQUENCES | TRAUMA DATA |
|---|---|
| Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown | 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured |
| 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death | 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given |
| 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled | 73. Arterial Blood Gases (ABG) – HCO ₃ |
| disease) (specify): | BELT USE DETERMINATION |
| 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured | 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used |



U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| | | | • |
|----------------------|--------------------|---------|--------|
| National Administ | Highway tration | Traffic | Safety |
| | | | |

| 1. Primary Sampling Unit Number | OCCUPANT'S SEATING |
|---|--|
| 2. Case Number - Stratum 95-08 | 10. Occupant's Seat Position /3 |
| 3. Vehicle Number | Front Seat (11) Left side |
| 4. Occupant Number | (12) Middle (13) Right side |
| OCCUPANT'S CHARACTERISTICS | (14) Other (specify):(15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant |
| 6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown | Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side |
| 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown | (44) Other (specify):(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify):(99) Unknown |
| 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown — pounds X .4536 = kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown | 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown |
| | |

| | EJECTION/E | NTRAPMENT |
|---|------------|--|
| 12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degre (9) Unknown | <u>O</u> | 15. Medium Status (Immediately Prior To Impact) O (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown |
| 13. Ejection Area (O) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back or (specify): (9) Unknown 14. Ejection Medium (O) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specifor) (5) Integral structure (8) Other medium (specify): (9) Unknown | <u>Ø</u> | 16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): |
| | | |

| | BELT SYSTEM FUNCTION | | |
|-----|---|--|--|
| 18. | Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown | 22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position | |
| 19. | Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown Manual (Active) Belt System Use (00) None used, not available, or belt | (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts | |
| | removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): | (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or | |
| | (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used | rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available | |
| 20. | Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat | (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly | |
| | (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown | child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly | |
| 21. | Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) | (8) Other improper use of automatic belt system (specify): (9) Unknown | |
| | (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): | 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): | |
| | (9) Unknown | (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown | |

| POLICE REPORTED RESTRAINT USE | AIR BAG SYSTEM FUNCTION |
|---|---|
| 28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" | 30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown |
| Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used | 32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of *other* air bag present: |
| | 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown |

| FINST SEAT FRONTAL AIR | BAG SYSTEM EVALUATION |
|---|--|
| 35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown | 40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown |
| 36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown | 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown |
| Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown 38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available | 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed (9) Unknown |
| Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown | 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut |
| 39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown | (04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown |

| FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued | HEAD RESTRAINT AND SEAT EVALUATION |
|---|--|
| 44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown | 49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions |
| 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered | (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): |
| (7) Not deployed (8) Unknown if deployed (9) Unknown 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present | (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): |
| (7) Not deployed (8) Unknown if deployed (9) Unknown 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): | (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track |
| (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses | positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown |
| (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown | |

HEAD RESTRAINT AND SEAT EVALUATION continued

| 5 2 | Saat | Dank | I = =1! | . . | | _ | |
|------------|------|------|---------|------------|-----|------|--------|
| 55. | Seal | Dack | incline | Prior | and | Post | Impact |

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

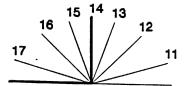
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

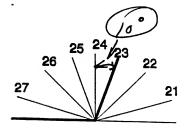
Slightly reclined prior to impact

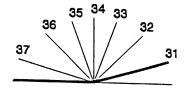
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify): _____
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







| | CHILD SAF | ETY | SEAT |
|-----|---|-----|---|
| 55. | Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS | 58. | Child Sa |
| | Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): | 59. | Child Sa |
| | (998) Unknown make/model | 60. | Child Sa |
| | (999) Unknown if child safety seat used . | | Note: O Variable |
| 56. | Type of Child Safety Seat (0) No child safety seat | | (00) No |
| | (1) Infant seat (2) Toddler seat | | Not Des (01) Af |
| | (3) Convertible seat (4) Booster seat - with shield (5) Recent - with shield | | (02) Af (03) Ch |
| | (5) Booster seat - without shield(7) Other type child safety seat (specify): | | ha (09) Ur |
| | (8) Unknown child safety seat type (9) Unknown if child safety seat used | | ad Designe |
| 57. | Child Safety Seat Orientation (00) No child safety seat | | (11) Ha (12) Ha (19) Un |
| | Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing | | Unknow (21) Ha (22) Ha (29) Un |
| | (08) Other orientation (specify): (09) Unknown orientation | | (99) Un |
| | | | |
| | Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): | | |
| | (19) Unknown orientation | | |
| | Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): | | |
| | (29) Unknown orientation | | |
| | (99) Unknown if child safety seat used | | |

58. Child Safety Seat Harness Usage

59. Child Safety Seat Shield Usage

60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES 61. Injury Severity (Police Rating) 3 (0) Not treated at a medical facility (0) O - No injury (1) C - Possible injury (1, Trauma center (2) B - Nonincapacitating injury (2) Hospital (3) Medical clinic (3) A - Incapacitating injury (4) K - Killed (4) Physician's office (5) Treatment later at medical facility (5) U - Injury, severity unknown (6) Died prior to accident (8) Other (specify): (9) Unknown (9) Unknown 62. Treatment - Mortality 64. Hospital Stay (0) No treatment (00) Not Hospitalized (1) Fatal (2) Fatal - ruled disease (specify): Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more Nonfatal (99) Unknown (3) Hospitalization (4) Transported and released 65. Working Days Lost (5) Treatment at scene - nontransported Code the number of days (6) Treatment later (up through 60) that the occupant (7) Treatment - other (specify): lost from work due to the accident (00) No working days lost (8) Transported to a medical facility-unknown if (61) 61 days or more treated (62) Fatally injured (9) Unknown (97) Not working prior to accident (99) Unknown

STOP WORK HERE

VARIABLES 66-74

| INJURY CONSEQUENCES | TRAUMA DATA |
|--|--|
| Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown | 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured |
| 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (apparish) | 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured |
| disease) (specify): | BELT USE DETERMINATION |
| 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured | 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used |
| | |

U.S. Department of Transportation

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

| | ioti ditori | CRASHWORTHINESS DATA SYSTE |
|--------------|---|--|
| 1. | Primary Sampling Unit Number | 12. Speed Limit |
| 2. | Case Number - Stratum 9508 | (000) No statutory limit Code posted or statutory speed limit |
| | Vehicle Number 0 2 | in kmph |
| | | (999) Unknown |
| | VEHICLE IDENTIFICATION | mph X 1.6093 = kmph |
| 4. | Vehicle Model Year Code the last two digits of the model year (99) Unknown | 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported |
| 5. | Vehicle Make (specify): Dodge Applicable codes are found in your | (8) No driver present (9) Unknown |
| | NASS Data Collection, Coding and Editing Manual. (99) Unknown | 14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) |
| 6. | Vehicle Model (specify): 0 4 1 | (95) Test refused (96) None given (97) AC test performed, results unknown |
| | Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. | (98) No driver present (99) Unknown |
| | (999) Unknown | Source: |
| 7. | Body Type Note: Applicable codes may be found on the back of this page. | 15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present |
| 8. | Vehicle Identification Number | (1) Yes other drug(s) present(7) Not reported |
| 1. | B3HD46T3RF(Serial # onitted) | (8) No driver present (9) Unknown |
| • | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines | 16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen |
| 9. | Vehicle Special Use (This Trip) (0) No special use | (2) Drug(s) found in specimen, (specify): |
| | (1) Taxi(2) Vehicle used as school bus | (3) Specimen test given, results unknown or not obtained |
| | (3) Vehicle used as other bus (4) Military | (8) No driver present |
| | (5) Police | (9) Unknown if specimen test given |
| | (6) Ambulance (7) Fire truck or car | 17. Driver's Zip Code |
| | (8) Other (specify): | (00001)Driver not a resident of U.S. |
| -3 | (9) Unknown | (00001)Driver not a resident of U.S. or territoriesCode actual 5-digit zip code |
| 1,000 | OFFICIAL RECORDS | (99998)No driver present (99999)Unknown |
| 10. | Police Reported Vehicle Disposition | (3333) STIKITOWIT |
| | (0) Not towed due to vehicle damage (1) Towed due to vehicle damage | 18. Driver's Race/Ethnic Origin |
| | (9) Unknown | (1) White (non-Hispanic) (2) Black (non-Hispanic) |
| 1 1 . | Police Reported Travel Speed 6 (a | (3) White (Hispanic) |
| . • | Code to the nearest kmph (NOTE: 000 means | (4) Black (Hispanic)(5) American Indian, Eskimo or Aleut |
| | less than 0.5 kmph) (160) 159.5 kmph and above | (6) Asian or Pacific Islander(7) Other (specify): |
| | (999) Unknown | |
| | mph X 1.6093 = kmph | (8) No driver present (9) Unknown |

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)(78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

| | PRECRACH ENLYIDONIMAENTAL DATA | | Page 2 |
|-----|---|----------|---|
| | PRECRASH ENVIRONMENTAL DATA | | 25 Death - 2 / 2 |
| 1.0 | Date: The second | | 25. Roadway Surface Condition |
| 119 | Relation To Interchange Or Junction | 0 1 | (1) Dry |
| 1 | (0) Non-interchange area and non-junction | _ | (2) Wet |
| | (1) Interchange area related | | (3) Snow or slush |
| | • | | (4) Ice |
| | Non-Interchange junctions | - 1 | (5) Sand, dirt, or oil |
| 1 | (2) Intersection related | | (8) Other (specify): |
| | | | (O) Unit (Specify): |
| | (3) Driveway, alley access related | i | (9) Unknown |
| 1 | (4) Other junction (specify) | l | |
| | | 10 | 26. Light Conditions |
| İ | (5) Unknown type of junction | - 1 | |
| | | - 1 | (1) Daylight |
| 1 | (9) Unknown | - 1 | (2) Dark |
| 1 | | | (3) Dark, but lighted |
| | | - 1 | (4) Dawn |
| 20 | Trafficway Flow | <u> </u> | (5) Dusk |
| 120 | (O) Net store to the state of | 21 | (9) Unknown |
| ł | (0) Not physically divided (two way traffic) | | |
| 1 | (1) Divided trafficway-median strip without | | |
| 1 | positive barrier | - 1 | 27 Atmospheric Coults |
| | (2) Divided trafficway-median strip with positive | | 27. Atmospheric Conditions |
| } | barrier | Ì | (0) No adverse atmospheric-related driving |
| | (3) One way traffic | | conditions |
| | (9) Unknown | ı | (1) Rain |
| 1 | (5) OTKHOWIT | | (2) Sleet/hail |
| 1 | | ı | (3) Snow |
| 21 | Number Of Travel Lanes | 2 l | (4) Fog |
| | (1) One | 2 | |
| | | | (5) Rain and fog |
| | (2) Two | | (6) Sleet and fog |
| | (3) Three | | (7) Other (e.g., smog, smoke, blowing sand or |
| l | (4) Four | | dust, etc.) (specify): |
| | (5) Five | | |
| 1 | (6) Six | | (9) Unknown |
| | (7) Seven or more | | |
| | (9) Unknown | | 28. Traffic Control Device |
| | (0) STIRTION (1) | | (0) No traffic control(s) |
| | | l | (0) No traffic control(s) |
| 22. | Roadway Alignment | | (1) Traffic control signal (not RR crossing) |
| | (1) Straight | - 1 | |
| İ | (2) Curve right | | Regulatory |
| l | (3) Curve left | | (2) Stop sign |
| | | | (3) Yield sign |
| | (9) Unknown | - 1 | (4) School zone sign |
| 1 | | Ì | (5) Other regulatory sign (specify): |
| 23 | Roadway Profile | | . , - and regulatory sign (specify). |
| | (1) Level (1) 1.7% | | (6) Warning sign (not BD |
| | (17 2010) | | (6) Warning sign (not RR crossing) |
| 1 | (2) Uphill grade (>2%) | | (7) Unknown sign |
| ĺ | (3) Hill crest | | (8) Miscellaneous/other controls including RR |
| l | (4) Downhill grade (>2%) | 1 | controls (specify): |
| | (5) Sag | j | |
| | (9) Unknown | | (9) Unknown |
| | | | |
| | B 1 | | |
| 24. | Roadway Surface Type | 2 1: | 29. Traffic Control Device Functioning |
| | (1) Concrete | _ | (0) No traffic control device |
| | (2) Bituminous (asphalt) | | (1) Traffic control device |
| | (3) Brick or block | | (1) Traffic control device not functioning |
| | (4) Slag, gravel, or stone | ļ | (specify): |
| | (5) Dirt | | (2) Traffic control device functioning properly |
| | | | (9) Unknown |
| | (8) Other (specify): | l | |
| | (9) Unknown | | |
| | | | |
| | | | 1 |

| L., | P٢ | RECRASH DRIVER RELATED DATA | This Vehicle Traveling |
|-----|-----------------------|--|--|
| 30. | (Prio (00) (01) | er's Distraction/Inattention To Driving r To Recognition Of Critical Event) No driver present Attentive or not distracted Looked but did not see | (10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side (14) End departure (15) Turning left at intersection |
| • | | Distractions By other occupant(s), (specify): | (16) Turning right at intersection (17) Crossing over (passing through) intersection (18) This vehicle decelerating |
| | | By moving object in vehicle (specify): | (19) Unknown travel direction |
| | (05) | While talking or listening to cellular phone (specify location and type of phone): | Other Motor Vehicle In Lane (50) Other vehicle stopped (51) Traveling in same direction with lower steady |
| | (06) | While dialing cellular phone (specify location and type of phone): | speed (52) Traveling in same direction while decelerating (53) Traveling in same direction with higher speed |
| | (07) (08) | While adjusting climate controls While adjusting radio, cassette, CD (specify): | (54) Traveling in opposite direction (55) In crossover (56) Backing |
| | | While using other device/object in vehicle (specify): Sleepy or fell asleep | (59) Unknown travel direction of other motor vehicle in lane |
| | (11) | Distracted by outside person, object, or event (specify): | Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left lane line |
| | (13) | Eating or drinking Smoking related | (61) From adjacent lane (same direction)—over right |
| | (97) | Distracted/inattentive, details unknown Other, distraction (specify): | lane line (62) From opposite direction—over left lane line (63) From opposite direction—over right lane line |
| | | Unknown | (64) From parking lane (65) From crossing street, turning into same |
| 31. | Pre-l | Event Movement (Prior to | direction |
| | (00) | No driver present | (66) From crossing street, across path(67) From crossing street, turning into opposite |
| | (01) | Going straight Decelerating in traffic lane | direction |
| | (03) | Accelerating in traffic lane | (68) From crossing street, intended path not known (70) From driveway, turning into same direction |
| | (04) | Starting in traffic lane | (71) From driveway, across path |
| | (06) | Stopped in traffic lane Passing or overtaking another vehicle | (72) From driveway, turning into opposite direction |
| | (07) | Disabled or parked in travel lane | (73) From driveway, intended path not known (74) From entrance to limited access highway |
| | (08) | Leaving a parking position | (78) Encroachment by other vehicle—details |
| | (09) | Entering a parking position | unknown |
| | (11) | Turning right Turning left | Production Deduteration Out at |
| | (12) | Making a U-turn | <i>Pedestrian, Pedalcyclist, or Other Nonmotorist</i> (80) Pedestrian in roadway |
| | (13) | Backing up (other than for parking position) | (81) Pedestrian approaching roadway |
| | (14) | Negotiating a curve Changing lanes | (82) Pedestrian—unknown location |
| | (16) | Merging | (83) Pedalcyclist or other nonmotorist in roadway |
| | (17) | Successful avoidance maneuver to a previous | (specify): (84) Pedalcyclist or other nonmotorist approaching |
| | | critical event | roadway, (specify): |
| | | Other (specify): Unknown | (85) Pedalcyclist or other nonmotorist—unknown location (specify): |
| 22 | Critic | cal Precrash Event 5-4 | Object or Animal |
| JZ. | | Vehicle Loss of Control Due To: | (87) Animal in roadway |
| | (01) | Blow out or flat tire | (88) Animal approaching roadway (89) Animal—unknown location |
| | (02) | Stalled engine | (90) Object in roadway |
| | (03) | Disabling vehicle failure (e.g., wheel fell off) (specify): | (91) Object approaching roadway |
| | (04) | Non-disabling vehicle problem (e.g., hood flew up) (specify): | (92) Object—unknown location(98) Other critical precrash event (specify): |
| | (05) | Poor road conditions (puddle, pot hole, ice, etc.) | (99) Unknown |
| | (06) (08) | (specify): Traveling too fast for conditions Other cause of control loss (specify): | |
| | | Unknown cause of control loss | |

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

| Cate | Contigur | | | | |
|--|--------------------------------------|---|--|--|----------------|
| kuti | ation | ACCIDENT TYPES (Includes In | tent) | | |
| ı. | A. Right Roadside Departure | DRIVE OFF CONTROL/ AVOID CO WITH VEH | | COPICS SPECIFIC MER UNKNOW | |
| Single Driver | B Left Roadside Departure | DRIVE OFF CONTROL/ AVOID CO TRACTION LOSS WITH VEH | | | 3 |
| - | C Forward Impact | PARKED VEH. STA. OSJECT PEDESTRIAN/ ANIMAL DE | - | 16 ECIFICS SPECIFIC | |
| Trafficway Direction | D Rear-End | 20 21 24 28 28 | 30 | ACH • 32) (EACH • | 33) |
| II Sane Trafficway Sane Direction | E Forward Impact | CONTROL/ TRACTION LOSS 38 CONTROL/ TRACTION LOSS AVOID COLLISION WITH VEH. | | PIEACH • 42HEACH | 1 • 43 PICS |
| | Sideswipe Angle | • | | (EACH - 49) SPECIFICS UNKNOW | VN |
| ray ctum | G Head-On | SPECIFICS | CH • 53) CIPICS UNKNOWN | | |
| Same Trafficway Oppinite Direction | H Forward Impact | SA 55 56 57 57 CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. | AVOID COLLISION WITH OBJECT | (EACH • 62)(EACH SPECIFICS SPECIFICS UNKNO | 108 |
| Ξ | l. Sideswiper Angle | | CH • 67) CIFICS UNKNOWN | - Onkar | |
| Change Trafficway Vehicle Turning | J. Turn Across Path | CS 71 70 73 72 1NITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS | 4 | (EACH • 74) (EACH · | |
| IV. Change Trafficw Vehicle Turning | K. Turn Into Path | 70 /20 31 | E Z | OTHER UNKNOW (EACH - 84) (EACH | |
| ing Paths IN (Vehicle Damage) | L. Straight Paths | 23 C9 SPE | CH • 90) | SPECIFICS SPECIFIC UNKNOWN (EACH • 91) SPECIFICS UNKNOWN | |
| VI Miscel- lancous | M. Backing Eic | BACKING | Other Accident To Unknown Accide No Impact | ype nt Type | |

| | OCCUPANT RELATED | 44. | Vehicle Cargo Weight |
|-----|--|--------------------------|--|
| 37. | Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown | | Venicle Cargo Weight Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown |
| 38. | Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown | | Source: Veh Trepection ROLLOVER DATA |
| 39. | Number of Occupant Forms Submitted 0 4 | 45. | Rollover (no overturning) |
| | AIR BAG RELATED | 10 | Rollover (primarily about the longitudinal axis) |
| 41. | Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag unknown if deployed Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed (8) Air bag(s) deployed, details unknown (9) Unknown Air Bag(s) Deployment, Other Than First Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) | 46. 47. 48. 49. | (17) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify): (98) Rollover-end-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown Rollover Initiation Type (00) No rollover (01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify): (98) Rollover-end-over-end (99) Unknown rollover initiation type Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—paved (4) On roadside or divided trafficway median (8) Rollover-end-over-end (9) Unknown Rollover Initiation Object Contacted (Note: Applicable codes on back of page) Location on Vehicle Where Initial Principal Tripping Force Is Applied |
| l | (5) Unknown if deployed (7) Nondeployed (9) Unknown Specify type of "other" air bag present: | | (0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): |
| | | | (6) Non-contact rollover forces (specify): |
| | VEHICLE WEIGHT ITEMS | | (8) Rolloverend-over-end (9) Unknown |
| 43. | Vehicle Curb Weight0Code weight to nearest10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown | (| Direction of Initial Roll (O) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rolloverend-over-end (9) Unknown roll direction |

| | OVERRIDE/UNDERRIDE (THIS VEHICLE) | ACCIDENT RECONSTRUCTION PROGRAMS |
|-----|--|--|
| 51. | Front Override/Underride (this Vehicle) | HIGHEST DELTA V |
| 52. | Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride | 58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection |
| | Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify): | Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. |
| | (7) Medium/heavy truck or bus override (of any configuration)(9) Unknown | All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the |
| Į | HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V | reconstruction program or other acceptable reconstruction technique, regardless of adequacy |
| | Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown | of damage data. (05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage |
| | Heading Angle For This Vehicle | (08) Severe override (09) Yielding object |
| 54. | Heading Angle For Other Vehicle/ | (10) Overlapping damage |
| 55 | RECONSTRUCTION DATA Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown | (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify): |
| 56. | Documentation of Trajectory Data for This Vehicle (0) No (1) Yes | (98) Other, (specify): |
| 57. | Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): | |

| | COMPUTER GENERAT | ED CHASH SEVERIT |
|-------------|--|--|
| 30 . | Total Delta V | Highest O 4 1 Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown DELTA V CONFIDENCE LEVEL 64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable OTHER SPEED ESTIMATE 65. Barrier Equivalent Speed Nearest kmph (highest) |
| 62 | (±160) ±159.5 kmph and above (_999) Unknown Energy Absorption/ 7 _ 7 _ 5 0 0 Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown | Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown |

| ESTIMATED DELTA V | VEHICLE INSPECTION |
|---|--|
| 66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe | 67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection |
| (9) Unknown | |

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

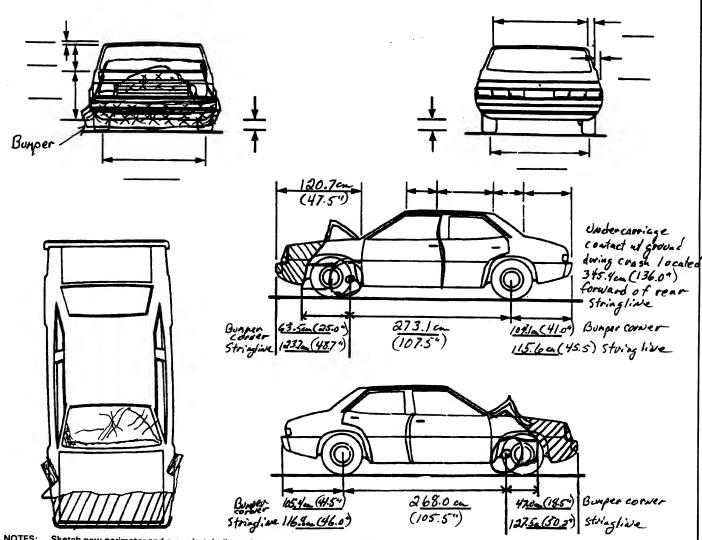
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.



| | way Traffic Safety | E | KTERIOR | VEH | ICLE I | ORM | N. | ATIONAL A | ACCIDENT | SAMPLIN | G SYSTE |
|------------------|---|---|---|------------------------------|-----------------------------|------------------------------|---------------------|-----------|----------|----------------|-------------------|
| | ry Sampling Unit No Number - Stratum | | 5-0 | - 1 | 3. Vehic | le Numb | oer | GHAGI | | | <u>)</u> <u>2</u> |
| | | | VEHICLE | IDENT | IFICAT | ION | | | | | |
| | $B 3 H D$ ake (specify): D_0 | | | | Se <u>rial</u> Vehicle | | | _ | | Year _ 9 | 4 |
| | | | L | OCATO | OR | | | | | | |
| Locate the | e end of the damage amaged axle for sid | with respe | | | | al center | line or | bumper | corner f | or end i | mpacts |
| Specific Impa | act No. Location | of Direct Dama | age | | Location | n of Field | L | | Location | of Max Cr | ush |
| | Entire | Contal | Plane | ENti, | e fro | utal P | leve | | CG | | |
| | | | | | | | | | | | |
| | | CRU | SH PROFI | LE IN | CENTI | METER | S | | | | |
| F t s | Measure C1 to C6 f mpacts. Free space value is c the individual C local side taper, etc. Rec Use as many lines/c | defined as the tions. This ord the valu | he distance may include le for each (| betwee the fol C-measu | n the ballowing: Irement | seline a bumper and ma | and the or lead, be | original | had | | ken at usion, |
| Specific | Plane of Impact | Direct D | amage | | | | promo. | <u> </u> | l | | |
| Impact Number | C-Measurements | Width (CDC) | Max Crush | Field L | C ₁ | C ₂ | C ₃ | C₄ | C₅ | C ^e | ±D |
| | Foot Bumper | 132.1cm | | | 59.7cm | | | 59.1am | 67.9cm | 81.35 | 0 |
| | Freespace | (52.0") | (32.0") | (52.5" | (23.54) | (28.10) | (23.49) | (23.3") | (26.8) | (32.0") | |
| | wees pace | | 14.0cm | | 14.0cm | 7.6a | 3.8cm | 3.8cm | 7.6cm | 14.0cm | |
| | | | 67.3cm | | (5.5") | (3.0) | 0.59 | (1.5") | (3.0") | (5.5) | |
| | | | (26.5") | | 15./cm | 63.00 | 55.6c | 35.3 | 60.34 | 67.3m | |
| | | | (46.5) | | (10.0) | (×5./") | (21.94) | (21.89) | (25.8°) | (26.59) | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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VEHICLE DAMAGE SKETCH TIRE-WHEEL DAMAGE ORIGINAL SPECIFICATIONS WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or (113") 287.0 restricted deflated Wheelbase cm displaced rear axles only) RF & 10 0 LF & / 00 Overall Length (201.79) 512.3 cm RF 10 Maximum Width (74.49) 185.0 cm RR ± (3,2716) 1,484 LR ± --Curb Weight kg Within ± 5 degrees (62.0) 157.5 Average Track cm (1) Yes (2) No (8) NA (9) Unk. (42.74) 108.5 Front Overhang **DRIVE WHEELS** cm TYPE OF TRANSMISSION (46.00) 116.8 Rear Overhang ☑ FWD □ RWD □ 4WD cm ☑ Automatic ☐ Manual Undeformed End Width (61.0°) 154.9 cm END SHIFT ≥ 10 CM **Approximate** Engine Size: cyl./displ. 3.3 □ No Downloard L ☑ Yes Cargo Weight None kg





Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

| | | | CDC | WORKSH | EET | | | 1 age (|
|----------|---------------|----------------------|---------------|--------------|--------------------------|------------------|------------------------|----------------|
| | | | | OBJECT CO | | D | | |
| (01-30 |) — Vehicle N | lumber | | 41 | | | | |
| (0.00) | · · · | dilibei | • | | 57) Fend | | | |
| Noncol | lision | | | _ | 58) Wall | | | |
| | | rollover (excludes | | | 59) Build | | | |
| (31) | Rollover en | d aver excludes | s ena-over-e | • | | or culvert | | |
| (32) | Fire or explo | d-over-end | | | 31) Grou | | | |
| (34) | Jackknife | SION | | | 32) Fire | | | |
| | | aia daman / | | | 33) Curb | | | |
| (35) | Other intraur | nit damage (speci | ty): | | 64) Brido | | | |
| (26) | Noncollision | • | | (6 | 38) Othe | r fixed object | (specify): | |
| (38) | Other nonco | llision (specify): | | 14 | 30\ | C 1 : 1 : | | |
| | | details unknown | | | | nown fixed obj | | |
| (55) | Noncomsion | - details unknow | wn | Coll | ision with | Nonfixed Obj | ect | |
| Collisio | n With Fixed | Object | | (/ | (U) Pass | enger car, ligh | t truck, van, | or other |
| (41) | Tree (< 10 | cm in diameter) | | ,- | vehic | ele not in-trans | port | |
| (42) | Tree (> 10 (| cm in diameter) | | (4 | (1) Medi | um/heavy truc | k or bus not | t in-transport |
| (43) | Shrubbery or | r huch | | | 72) Pede | | | |
| (44) | Embankment | . Dusii | | (4 | (3) Cycli | st or cycle | | |
| .4/ | Embankinem | • | | () | 4 }⊸Othe | r nonmotorist | or conveyan | ice · |
| (45) | Breakaway p | ole or post (any | diameter) | (7 | 75) Vehi | cle occupant | | |
| Nonbre | akaway Pole d | or Boot | | - | 76) Anim | | | |
| (50) | Pole or nost | લ 10 cm in diar | | | 77) Train | | | |
| (50) | Pole or post | (≤ 10 cm in diar | neter) | (7 | 78) Traile | er, disconnecte | ed in transpo | ort |
| (31) | diameter) | (> 10 cm but ≤ | 30 cm in | (7 | 9) Obje | ct fell from vel | nicle in-trans | port |
| (52) | | (> 30 cm in dian | | (8 | 38) Othe | r nonfixed obje | ect (specify) | : |
| (53) | Pole or post | (| neter) vn) | (8 | 9) Unkr | own nonfixed | object | |
| (54) | Concrete traf | ffic bossies | | | | | - | |
| | Impact attent | | | (9 | 8) Othe | r event (specif | y): | |
| | Other traffic | barrier (includes | guardrail) | (9 | 9) Unkn | own event or | obiect | |
| | (specify): | | | | | | | |
| | | DEFORMA ⁻ | TION CLASS | SIFICATION I | BY EVEN | T NUMBER | | |
| Accident | | (1) (2) | | | (4) | (5) | | |
| Event | | Direction | Incremental | (3) | Specific | | _ (6) | |
| Sequence | Object | of Force | Value of | Deformation | Longitudio or Later | | Type of | (7) |
| Number | Contacted | (degrees) | Shift | Location | Location | | Damage Distribution | Deformation |
| | | | | | | | Distribution | Extent |
| 01 | 01 | 360 | 40 | F | D | E | ω | 03 |
| | | | | | | | | |
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| | | COLLISION | DEFORMA | TION CLAS | SIFICATIO | N | |
|---|--|--|---------------------------------|--|--|---------------------------------|------------------------------|
| HIGHEST | DELTA "V" | | | | | | |
| Accident Event Sequence Number | Object Contacted | (1) (2) Direction of Force | (3) Deformation Location | (4) Longitudinal or Lateral Location | (5) Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent |
| 40 | 5. <u> </u> | 6. <u>5 2</u> | 7. <u> </u> | 8. <u>)</u> | 9 <i>E</i> | 10. <u>W</u> | 11. <u>03</u> |
| Second H | ighest Delta "V | 11 | | | | | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | | CRUS | H PROFILE | IN CENTIM | ETERS | | |
| ∕ . | The crush pro- in the appre | file for the dan opriate space l | nage described below. (ALL M | in the CDC(s) | above should S ARE IN CEN | be documente TIMETERS.) | d |
| HIGHEST | DELTA "V" | | | | • | | |
| 20. L | 21. | | | | C ₅ | C ₆ | 22. ±D |
| 1 55 (61.0°) | <u>046</u> (18.0°) | 0_64 | <u>056</u> (21.9") (| 0 <u>55 </u> | <u>60</u> 0. | 67 <u>+</u> 6.5°) | 000 |
| Second H | ighest Delta "V | • | | | | | |
| 23. | 24. | | | | C ₅ | C ₆ | 25. ±D |
| | | | | | | + | |
| (Coded impact (250) (998) | ormed End Widtl d when highest s is an end plane Code to the ne 250 centimeter No highest seve Unknown | severity impact.) arest centimete s or more | | (650) (999) ———— | | rs or more 2.54 = | 287 |
| (For hi | Damage Width ghest severity in Code to the nea 250 centimeter Unknown | arest centimete | 132 or (52.0°) | (185) | Average Track Code to the ne centimter 185 centimeter Unknown inches X | arest rs or more | |

| | | FUEL SYSTEM |
|--|----------------------|---|
| 30. Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes 31. Researcher's Assessment of Vehicle | _0 | 35. Location of Fuel Tank-1 Filler Cap 36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane (3) Aft of center of the rear wheels (rear axle) |
| Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): | <u>.</u> <u>0</u> | on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown |
| (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified | | 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown |
| FIRE OCCURRENCE | | 39. Location of Fuel Tank-1 |
| 33. Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown | 0 | 40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered |
| 34. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown | 0 | (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown Wheels (rear axle) 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown |

| 43. | Leakage Location of Fuel System-1 | | | nis Vehicle Equipped With More Than |
|-----|---|---------------|-----|--|
| 44. | Leakage Location of Fuel System-2 | | | Fuel Tanks? No (one or two tanks only) |
| | (0) No fuel tank | 1 | | · |
| | (1) No fuel leakage | | | - More Than Two Tanks |
| | Primary Area Of Leakage | ' | (1) | Yes no damage to any tank or filler |
| | (2) Tank | 1 , | (2) | cap and no fuel system leakage |
| | (3) Filler neck | 1 ' | (2) | Yes no damage to any tank or filler cap but there is fuel system leakage |
| | (4) Cap | | | (specify leakage location): |
| | (5) Lines/pump/filter | | | toposity loakago loodiloity. |
| | (6) Vent/emission recovery | (| (3) | Yes damage to an additional tank or |
| | (8) Other (specify): | | | filler cap and there is fuel system leakage |
| | (9) Unknown | | | (specify the following): |
| | | | | Type of tank |
| 45. | Fuel Type-1 | | | i alik iocation |
| | | | | Filler cap location Tank damage |
| 46. | Fuel Type-2 | 1 | | Location of leakage |
| | | | | Type of fuel |
| | Single Fuel Type | (| (9) | Type of fuelUnknown if more than two tanks |
| | (00) No fuel tank (01) Gasoline | : - | | |
| | (02) Diesel | | | |
| | (03) CNG (Compressed Natural Gas) | | | COMMENTS |
| | (04) LPG (Liquid Petroleum Gas) also | İ | | COMMENTS |
| | known as Propane | 1 | | |
| | (05) LNG (Liquid Natural Gas) | - | | |
| | (06) Methanol (M100 or M85) | - | | |
| | (07) Ethanol (E100 or E85) (08) Other (Hydrogen or others) (specify): | ŀ | | |
| | | - | | |
| | Electric Powered or Electric/Solar | - | | |
| | Powered Vehicles | | | |
| | (10) Lead Acid Battery | | | |
| | (11) Nickel-Iron Battery (12) Nickel-Cadmium Battery | - | | |
| | (13) Sodium Metal Chloride Battery | | | |
| | (14) Sodium Sulfur Battery | - | | |
| | (18) Other (Specify): | _ | | - |
| | (98) Other Hybrid (specify): | _ | | |
| | | | | |
| | (99) Unknown fuel type | - | | |
| | | - | | |
| | | | | |
| | | | | |
| | *** STOP: IF THE CDS APPLICAB | LE VE | HIC | LE WAS NOT TOWED *** |
| | | | | |
| | (GV | $ 0=0\rangle$ | | |

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

EHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

| National Highway Traffic Safety Administration | INTERIOR V |
|---|--|
| 1. Primary Sampling Unit Number | |
| 2. Case Number - Stratum | 95-08 |
| 3. Vehicle Number | 02 |
| INTEGRITY | |
| 4. Passenger Compartment Integrit (00) No integrity loss | v <u>00</u> |
| Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window (12) Windshield and side window (13) Door and side window (98) Other combination of above (specif | - |
| Door, Tailgate or Hatch Opening | |
| 5. LF <u>/</u> 6. RF <u>3</u> 7. LR <u>/</u> 8. RF | <u>/</u> 9. TG/H_ <i>O</i> |
| (0) No door/gate/hatch (1) Door/gate/hatch remained closed an (2) Door/gate/hatch came open during of (3) Door/gate/hatch jammed shut (8) Other (specify): | d operational collision |
| Damage/Failure Associated with Doo Opening in Collision. If IV05-IV09 ≠ | r, Tailgate or Hatch 2, Then code Ø |
| 10. LF <u>O</u> 11. RF <u>O</u> 12. LR <u>O</u> 13. F | RR <u>O</u> 14. TG/H <u>O</u> |

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

GLAZING

Type of Window/Windshield Glazing

15. WS / 16. LF 2 17. RF 2 18. LR 2 19. RR 2

20. BL 2 21. Roof 0 22. Other 0

- (0) No glazing
- (1) AS-1 Laminated
- (2) AS-2 Tempered
- (3) AS-3 Tempered-tinted (original)
- (4) AS-2 Tempered-with after market tint
- (5) AS-3 Tempered-tinted (with additional after market tint)
- (6) AS-14 Glass/Plastic
- (7) Glazing removed prior to accident
- (8) Other (specify):
- (9) Unknown

Window Precrash Glazing Status

23. WS / 24. LF 2 25. RF 2 26. LR 2 27. RR 2

28. BL / 29. Roof <u>0</u> 30. Other <u>0</u>

- (0) No glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (7) Glazing removed prior to accident
- (9) Unknown

Glazing Damage from Impact Forces

31. WS<u>2</u> 32. LF<u>/</u> 33. RF<u>/</u> 34. LR<u>/</u> 35. RR<u>/</u>

36. BL / 37. Roof o 38. Other

- (0) No glazing
- (1) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

39. WS<u>/</u> 40. LF<u>/</u> 41. RF<u>/</u> 42. LR<u>/</u> 43. RR <u>/</u>

44. BL / 45. Roof <u>0</u> 46. Other <u>0</u>

- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (6) Glazing out-of-place by occupant contact and holed by occupant contact
- (7) Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

Row Width (cm) Roy Longitudinal Roy Longitudinal Roy Width (cm) Roy Width

| LOCATION | | (All Mea | surements Are In Centin | notes a l | DOMESTIC |
|-----------|---|--------------|-------------------------|----------------------|-------------------|
| OF | INTRUDED | COMPARISON | INTRUDED | INTRUSION | DOMINANT CRUSH |
| INTRUSION | COMPONENT | VALUE - | VALUE | = | DIRECTION |
| 11 | Toe PAN- Agacent | 114.9a - | 95.3 37.5") | = 19.6 cm (2.7") | Long |
| 11 | Sent back Support | - | | = 15.26 | lon |
| 12 | Tenter Instrument Procel Lower 2dge gamsok (tente | 67.3cm - | 63.8cm (25.125") | = 3.5 cm (1.4") | Long |
| 13 | Toe Run @ base from Seat back Engert | le (41.5") | 77.5 cm (30.5") | = 27.9 cm (11.04) | long |
| 1,3 | Seatback Sayport | _ | | = 25.4 cm (10.0°) | ion |
| | • | _ | | = | 0 |
| | | _ | | = | |
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| | | _ | | = , | |

OCCUPANT AREA INTRUSION

| Note | Note: If no intrusions, leave variables IV47-IV86 blank. | | | | |
|------|--|------------------------|---------------------------|--------------------------------|--|
| | | Intruding Component | Magnitude of Intrusion | Dominant Crush Direction | |
| 1st | 47/_3 | 4820 | 493 | 502 | |
| 2nd | 51. <u>/</u> _3 | 52. <u>0</u> 5 | 53 | 54 | |
| 3rd | 55/_/ | 56 | 573 | 58 | |
| 4th | 59/_/ | 60. <u>2</u> <u>0</u> | 613 | 62.2 | |
| 5th | 63. <u>/</u> 2 | 64. <u>0</u> 3 | 65 | 66 | |
| 6th | 67 | 68 | 69 | 70 | |
| 7th | 71 | 72 | 73 | 74 | |
| 8th | 75 | 76 | 77 | 78 | |
| 9th | 79 | 80 | 81 | 82 | |
| 10th | 83 | 84 | 85 | 86 | |

LOCATION OF INTRUSION

(42) Middle (43) Right

(41) Left

Fourth Seat

(21) Left (22) Middle (23) Right

(97) Catastrophic (98) Other enclosed area (specify)

Third Seat (31) Left

(32) Middle (33) Right

(99) Unknown

INTRUDING COMPONENT

Interior Components

(01) Steering assembly

(02) Instrument panel left

(03) Instrument panel center

(04) Instrument panel right

(05) Toe pan

(06) A (A1/A2)-pillar

(07) B-pillar

(08) C-pillar

(09) D-pillar

(10) Side panel - forward of the A1/A2-pillar

(11) Door panel (side)

(12) Side panel - rear of the B-pillar

(13) Roof (or convertible top)

(14) Roof side rail

(15) Windshield

(16) Windshield header

(17) Window frame

(18) Floor pan (includes sill)

(19) Backlight header

(20) Front seat back

(21) Second seat back

(22) Third seat back (23) Fourth seat back

(24) Fifth seat back

(25) Seat cushion

(26) Back door/panel (e.g., tailgate)

(27) Other interior component (specify):

Exterior Components

(30) Hood

(31) Outside surface of this vehicle (specify):

(32) Other exterior object in the environment (specify):

(33) Unknown exterior object

(97) Catastrophic

(98) Intrusion of unlisted component(s) (specify):

(99) Unknown

MAGNITUDE OF INTRUSION

(1) \geq 3 centimeters but < 8 centimeters

(2) \geq 8 centimeters but < 15 centimeters

(3) ≥ 15 centimeters but < 30 centimeters

(4) ≥ 30 centimeters but < 46 centimeters

(5) ≥ 46 centimeters but < 61 centimeters

(6) \geq 61 centimeters

(7) Catastrophic

(9) Unknown

DOMINANT CRUSH DIRECTION

(1) Vertical

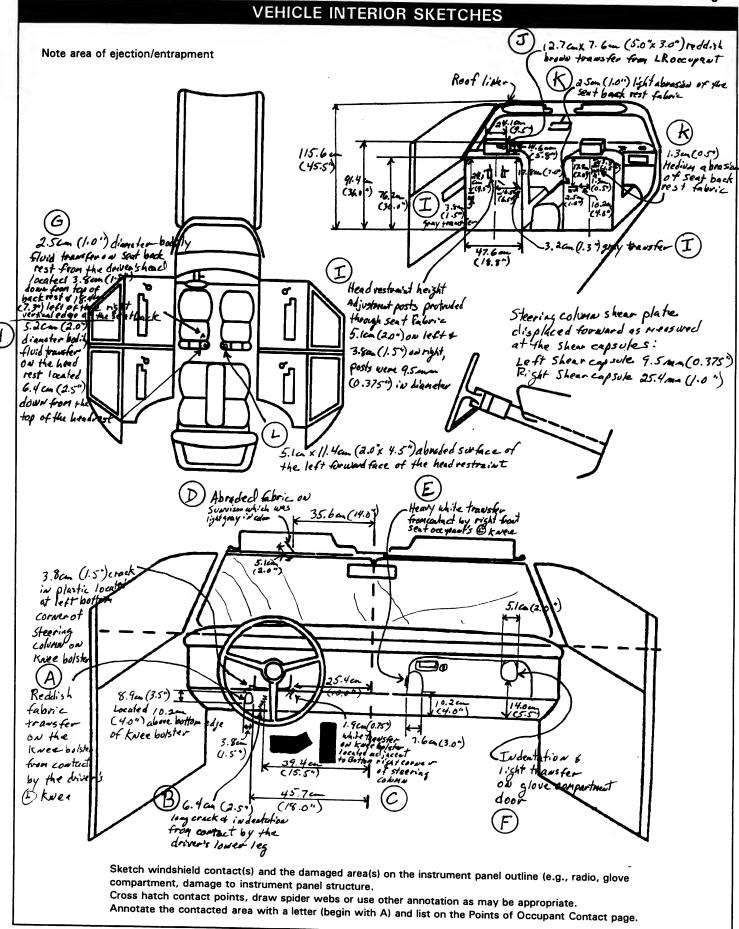
(2) Longitudinal

(3) Lateral

(7) Catastrophic

(9) Unknown

| STEERING COLUMN | INSTRUMENT PANEL |
|---|--|
| 87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown | 92. Odometer Reading kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown 5.42 |
| (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown | 93. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown 94. Type of Knee Bolster Covering (0) No knee bolster |
| 89. Telescoping Steering Column Adjustment (O) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown | (1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown 95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown |
| 90. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown | 96. Did Glove Compartment Door Open During Collision(s)? (O) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown 97. Adaptive (Assistive) Driving Equipment |
| 91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown | (0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify): |
| | |



| | POIN | TS OF OC | CUPANT CONTACT | |
|------------------------------------|--|---|--|---|
| Interior Component Contacted | Occupant No. If Known | Body Region If Known | Supporting Physical Evidence | Confidence Level of Contact Point |
| 014 | 01 | @Kree | Reddish Fabric transfer | 1 |
| 014 | 01 | | | 1 |
| | 61 | | | 2 |
| | 03 | 1 | | 3 |
| / | | 1 - | | 1 |
| | | | | 1 |
| 151 | 01 | | . // | , , |
| 155 | 01 | | Bodily Aud transformen the freehold in | 1 |
| 151 | 03 | | | |
| 155 | 03 | 1 1 | Replish hornes to refer | 1 |
| 151 | 04 | | | 1 |
| 155 | 04 | 1 4 4 | | |
| | | | VILLE AII. 7 CM UUMARA SE EVE | |
| | | | | |
| | Component Contacted 014 014 014 063 012/013 013 151 155 151 | Interior Component Component Contacted No. If Known 014 01 014 01 014 01 063 03 012/013 02 013 02 151 01 155 01 155 03 151 04 | Interior Component Component Contacted | Interior Component Component Contacted No. If Known Supporting Physical Evidence 014 01 (DKNee Reddish Fabric transfer 014 01 (DLownley 6.4cm (2.5°) long Crack 014 01 (R) Knee 1.9cm (0.75°) white fransfer 003 03 (R) Haard 5.1cm (2.0°) long abroaded fabric 012/013 02 (R) Knee Heavy white abrosom/transfer 013 02 (R) Knee Heavy white abrosom/transfer 151 01 Head Bodily fluid drip just under transfer on head. 155 01 Head Bodily fluid transfer on the fluxed face 151 03 Hips/torso Protousion of headneshmint adjustment posts/gray transfer 155 03 Upper torso Reddish brown transfer |

| | N | | | | | | | | |
|---------|-------------|---------------------------|--------|-----------|--|---------|---|---------|----------------------------|
| FRON | | | | CC | DES FOR INT | ERIOR (| COMPONENTS | REAR | |
| | Windshiel | a | | | | | | (301) | Backlight (rear window) |
| | Mirror | | LEFT S | | | INTERIO | | (302) | Backlight storage rack, |
| | Sunvisor | | (051) | Left sid | e interior surface, | (151) | Seat, back support | | door, etc. |
| | Steering v | | | | ng hardware or | (152) | Belt restraint | (303) | Other rear object (specify |
| (000) | Steering v | wheel hub/spoke | | armrest | | | webbing/buckle | | , ,-,- |
| (000) | Steering v | wheel (combination | | | e hardware or | (153) | Belt restraint B-pillar or door | | |
| 1007 | Steering | 004 and 005) | | armrest | | | frame attachment point | ADAP | TIVE (ASSISTIVE) DRIVIN |
| 1 (007) | | ansmission | | | A1/A2)-pillar | (154) | Other restraint system | EQUIF | PMENT |
| | | ansmission ever, other | | Left B-p | | | component (specify): | (401) | Hand controls for |
| Ì | attachme | | (055) | Other le | eft pillar (specify): | | | | braking/acceleration |
| (008) | | elephone or CB | (OEC) | I -44 -14 | | (155) | Head restraint system | (402) | Steering control devices |
| '000' | radio | siephone of CD | (050) | Left Sid | e window glass e window frame | (160) | Other occupants (specify): | | (attached to OEM steerin |
| (009) | | quipment(e.g., tape | | | e window frame e window sill | 14.04 | | | wheel) |
| ,,,,,, | deck air o | conditioner) | | | | (161) | Interior loose objects | (403) | Steering knob attached to |
| (010) | | ment panel and | (033) | includio | e window glass g one or more of the | (162) | Child safety seat (specify): | | steering wheel |
| ,,,,, | below | amont panor and | | followin | g one or more or the g: frame, window | (4.00) | - | (405) | Replacement steering wh |
| (011) | | strument panel and | | eill A / | A1/A2)-pillar, B-pillar | (163) | Other interior object | | (i.e., reduced diameter) |
| (**** | below | stramont panor and | | or roof | n (/A2)-pillar, b-pillai side rail. | • | (specify): | (406) | Joy stick steering control |
| (012) | Right inst | rument panel and | | | oft side object | AIR B | | (407) | Wheelchair tie-downs |
| | below | Paner and | (000, | Isnacify | r): | /170\ | | (408) | Modification to seat belts |
| (013) | Glove con | npartment door | | (Specify | ·· | | Air bag-driver side | | (specify): |
| | Knee bols | | RIGHT | SIDE | | (175) | Air bag compartment cover-driver side | (409) | Additional or relocated |
| (015) | Windshiel | d including one or | | | de interior surface, | (190) | | | switches, (specify): |
| | more of the | he following: front | | | ng hardware or | (186) | Air bag-passenger side Air bag compartment | | |
| | | (A1/A2)-pillar, | | armrest | | (100) | Cover-passanger side | | Raised roof |
| | instrumen | t panel, mirror, or | | | de hardware or | (190) | cover-passenger side Other air bag (specify) | (411) | Wall mounted head rest |
| l | steering a | ssembly (driver | | armrest | | (130) | Other an Day (Specify) | 1410 | (used behind wheel chair) |
| | side only) | | (103) | Right A | (A1/A2)-pillar | (195) | Other air bag compartment | _ (412) | Other adaptive device |
| | | | | | | | | | |

| | Seat, back support | | door, etc. |
|-------|---|---------|----------------------------------|
| (152) | Belt restraint webbing/buckle | (303) | Other rear object (specify): |
| (153) | Belt restraint B-pillar or door | | |
| | frame attachment point | ADAP | TIVE (ASSISTIVE) DRIVING |
| (154) | Other restraint system | | MENT |
| | component (specify): | | Hand controls for |
| | | , | braking/acceleration |
| (155) | Head restraint system | (402) | Steering control devices |
| (160) | Other occupants (specify): | , , , , | (attached to OEM steering wheel) |
| (161) | Interior loose objects | (403) | Steering knob attached to |
| (162) | Child safety seat (specify): | | steering wheel |
| | | (405) | Replacement steering whee |
| (163) | Other interior object | | (i.e., reduced diameter) |
| | (specify): | (406) | Joy stick steering controls |
| | | (407) | Wheelchair tie-downs |
| AIR B | | (408) | Modification to seat belts, |
| (170) | Air bag-driver side | | (specify): |
| (175) | Air bag compartment | (409) | Additional or relocated |
| | cover-driver side | | switches, (specify): |
| | Air bag-passenger side | | |
| (185) | Air bag compartment | (410) | Raised roof |
| | cover-passenger side | (411) | Wall mounted head rest |
| (190) | Other air bag (specify) | | (used behind wheel chair) |
| | | (412) | Other adaptive device |
| (195) | Other air bag compartment cover (specify) | | (specify): |
| ROOF | | | |
| (201) | Front header | | |
| (202) | Rear header | | |
| (203) | Roof left side rail | | |
| (204) | Roof right side rail | | |
| (205) | Roof or convertible top | | |
| FLOO | R | | |
| (251) | Floor (including toe pan) | | |
| 12E21 | Flags as a second | | |

(103) Right A (A1/A2)-pillar (104) Right B-pillar more of the following: front (105) Other right pillar (specify): header, A (A1/A2)-pillar, instrument panel, or mirror (106) Right side window glass (107) Right side window frame (passenger side only) (017) Windshield reinforced by (108) Right side window sill exterior object, (specify): (109) Right side window glass including one or more of the (019) Other front object (specify): following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. (110) Other right side object (specify):

(016) Windshield including one or

(252) Floor or console mounted transmission lever, including console (253) Parking brake handle (254) Foot controls including parking brake

(2)

(3) (9)

CONFIDENCE LEVEL OF CONTACT **POINT** Certain (1)

Probable Possible

Unknown

MANUAL RESTRAINTS Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. If a Child safety seat is present, encode the data on the back of this page. If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page. Left Center Right Availability 4 4 F Evidence of usage 04 04 Used in this crash? 04 - Heavy fatoric R Proper Use S **Failure Modes** Anchorage Adjustment 2 2 Availability 4 3 4 Evidence of usage 24 SECOZO M Used in this crash? 00 Proper Use 0 0 Failure Modes 0 **Anchorage Adjustment** 0 Availability Evidence of usage 0 Т Used in this crash? Н **Proper Use** E Failure Modes **Anchorage Adjustment** Manual (Active) Belt System Availability Proper Use of Manual (Active) Belts Shoulder Belt Upper Anchorage Adjustment (0) None available None used or not available (0) No shoulder belt (1) Belt removed/destroyed (1) Belt used properly (1) No upper anchorage adjustment for (2) Shoulder belt Belt used properly with child safety (2)shoulder belt (3) Lap belt seat (4) Lap and shoulder belt Adjustable shoulder Belt Upper (5) Belt available - type unknown Belt Used Improperly Anchorage Shoulder belt worn under arm (2) In full up position Integral Belt Partially Destroyed (4) Shoulder belt worn behind back or (3) In mid position (6) Shoulder belt (lap belt seat (4)In full down position destroyed/removed) Belt worn around more than one (5) Position unknown (7) Lap belt (shoulder belt person Unknown if position has adjustable destroyed/removed) Lap belt worn on abdomen upper anchorage adjustment (8) Other belt (specify): (7) Lap belt or lap and shoulder belt used improperly with child safety (9) Unknown seat (specify): (8) Other improper use of manual belt Manual (Active) Belt System Use system (specify): (00) None used, not available, or belt removed/destroyed (9) Unknown (01) Inoperable (specify): Shoulder belt (02) Manual (Active) Belt Failure Modes During (03) Lap belt Accident (04)Lap and shoulder belt (0) No manual belt used or not available (05)Belt used - type unknown (1) No manual belt failure(s) (80) Other belt used (specify): Torn webbing (stretched webbing (2) not included) (12) Shoulder belt used with child safety (3) Broken buckle or latchplate (4)Upper anchorage separated (13)Lap belt used with child safety seat Other anchorage separated (5) (14)Lap and shoulder belt used with (specify): child safety seat (6)Broken retractor

Combination of above (specify):

Other manual belt failure (specify):

(15) Belt used with child safety seat -

Other belt used with child safety

type unknown

seat (specify):

Unknown if belt used

(18)

(99)

(7)

(8)

(9)

Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES:

Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

| | Driver | Passenger |
|---------------------------------|-----------------------|---|
| Type of air bag? | | 1 |
| Flaps open at tear points? | 2 | 7 |
| Flaps damaged? | 1 | |
| Air bag damaged? | 0.1 | |
| Source of air bag damage | | 01 |
| Air bag tethered? | 2 - 2 tethers located | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| Air bag have vent ports? | 1 | pasitions 2 - 1 large to their located |
| Other occupant contact air bag? | 7 | |
| Occupant wearing eyewear? | 2 | 5. |

Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn (05) Holed
- (OS) Holed
- (06) Burned (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was This Occupant Wearing Eye-wear?

- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

AUTOMATIC RESTRAINTS

| NOTES: | Encode the data for each a | applicable front seat position. | . The attribute for the variables may be found |
|--------|----------------------------|---------------------------------|--|
| | below. Restraint systems | should be assessed during th | ne vehicle inspection then coded on the Occupant |
| | Assessment Form. | AIR BAGS | , and a coupant |

| | | Left Front | Right Front | Other |
|--------|-----------------------|------------|-------------|-------|
| F | Availability/Function | | 1 | 0 |
| Ř | Deployment | 1 | j | |
| S T | Failure | / | , | 0 |

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence
 (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Air Bag(s) Deployment, <u>Other</u> Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an "other" air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

AUTOMATIC BELTS

| | | Left | Right |
|---|-----------------------|------|-------|
| | Availability/Function | 0 | 0 |
| F | Use | | |
| Ŕ | Туре | | / |
| T | Proper Use | | |
| | Failure Modes | | / |

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

Proper Use of Automatic (Passive) Belt System

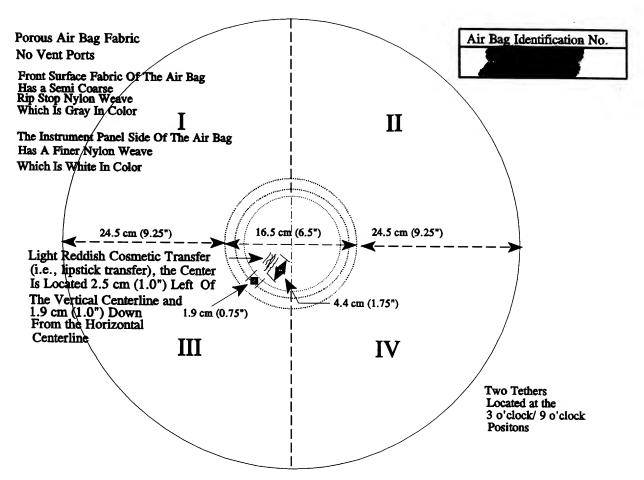
- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

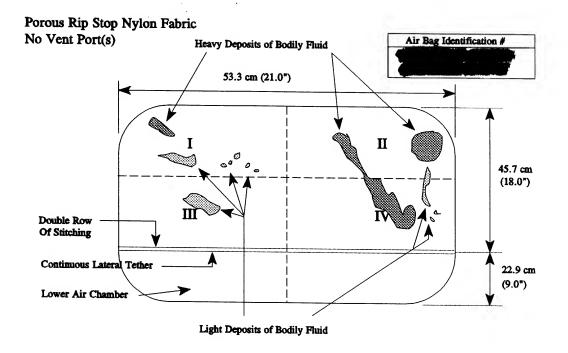
Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
 - 8) Other automatic belt failure (specify):
- (9) Unknown

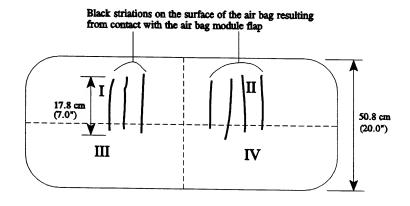


Tethered Driver Side Air Bag of Vehicle #2

| DRIVER AIR BAG S | KETCHES (Cont'd) |
|--|---|
| 3. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (W _U) height (H _U) height (H _L) 16.5 cm (6.5°) 1.0 cm (2.75°) H _L W _L 8.3 cm (3.25°) | |
| 4. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE | 5. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS |
| 6. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS No Vent Ports 11 12 1 10 2 9 3 8 4 7 6 5 | |



Passenger Side Air Bag of Vehicle #2



Instrument Panel Side (Rear) of the Passenger Side Air Bag of Vehicle #2

| PASSENGER AIR BAC | SKETCHES (Cont'd) |
|--|---|
| 3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap thickness = . _{Aum} (0.44*) width (W) height (H) SRS AirBas (13.75*) | 4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (W _U) height (H _U) W H H W W W W W H H H H H |
| 5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE | 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS |
| 7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS No Vent Port 10 11 12 1 2 9 3 8 7 6 5 4 | |

| "OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES | |
|--|--|
| 1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

| | | Left | Center | Right |
|-------------|-----------------------------------|-------------------------|---------|-------------------------|
| | Head Restraint Type/Damage | 3 (Adj. to Down | s. tion | 3 (Adj. to Down Pos |
| F | Seat Type | 01 | | 01 |
| I R | Seat Performance | 05 | | 0 S |
| S | Seat Orientation | 1 | | 1 |
| Т | Seat Track Position | Scal jamend 3 | | Seaf Juned 3 |
| | Seat Back Incline Pre/Post Impact | 10 rearward of Vertical | | 120 reasonal of vertice |
| | Head Restraint Type/Damage | 0 | 0 | 0 |
| S | Seat Type | 03 | 03 | 03 |
| S E C | Seat Performance | 1 | 1 | 1 |
| 0 | Seat Orientation | | 1 | 1 |
| N D | Seat Track Position | 01 | 01 | 01 |
| | Seat Back Incline Pre/Post Impact | 01 | 0 1 | 01 |
| | Head Restraint Type/Damage | / | | , |
| Т | Seat Type | | | |
| Ĥ | Seat Performance | | | |
| R | Seat Orientation | | | |
| D | Seat Track Position | | | |
| | Seat Back Incline Pre/Post Impact | | | |
| | Head Restraint Type/Damage | j | / | |
| 0 | Seat Type | | | / |
| T H | Seat Performance | | | / |
| E R | Seat Orientation | | | |
| | Seat Track Position | | | |
| | Seat Back Incline Pre/Post Impact | | | / |

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Occupant at This Occupant Position Position)

- (O) No head restraints
- (1) Integral no damage
 (2) Integral damaged during accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- Add-on no damage
- Add-on damaged during accident
- (8)Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01)Bucket
- (02)Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06)Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- Seat adjusters failed
- Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- Forward facing seat
- (2) Rear facing seat
- Side facing seat (inward) (3)
- Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

Seat Track Adjusted Position Prior To

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2) Seat at forward most track position
- (3) Seat between forward most and middle track positions
- Seat at middle track position
- Seat between middle and rear most track positions
- (6) Seat at rear most track position
- (9) Unknown

Seat Back Incline Prior and Post **Impact**

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

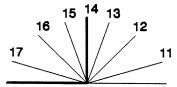
- (11) Moved to completely rearward position
- Moved to rearward midrange position
- (13)Moved to slightly rearward position
- Retained pre-impact position
- (15)Moved to slightly forward position
- (16)Moved to forward midrange position
- (17)Moved to completely forward position

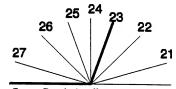
Slightly reclined prior to impact

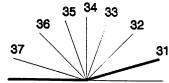
- (21) Moved to completely rearward position
- (22)Moved to rearward midrange position
- (23)Retained pre-impact postion
- (24)Moved to upright position
- Moved to slightly forward (25)position
- Moved to forward midrange (26)position
- (27)Moved to completely forward position

Completely reclined prior to impact

- Retained pre-impact position
- (32)Moved to rearward midrange position
- (33)Moved to slightly rearward position
- (34)Moved to upright position
- (35)Moved to slightly forward position
- Moved to forward midrange (36)position
- (37)Moved to completely forward position
- (99)Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

| Complete the following if the resear in the vehicle. Code the appropriate EJECTION No [/] Yes [Describe indications of ejection and | te data on the Occupant As | t an occupa sessment Fo | nt was eithe orm. | er ejected fr | om or entrapp |
|---|---|----------------------------|--|---------------------|---------------|
| Occupant Number | | | | | |
| Ejection (Note on Vehicle Interior Sketch) Ejection Area | | | | | |
| Ejection Medium Medium Status | | | | | |
| Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown | (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium | | (5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prior to Impact) | | |
| (1) Windshield(2) Left front(3) Right front(4) Left rear(5) Right rear(6) Rear | (1) Door/hatch/tailgate(2) Nonfixed roof structure(3) Fixed glazing(4) Nonfixed glazing (specify): | | (1) Ope (2) Clos (3) Inte (9) Unk | sed gral structu | re |
| Describe entrapment mechanism: | s [] | | | | |
| Component(s): | | | | | |
| (Note in vehicle interior diagram) | | | | | |

U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

| 1. Primary Sampling Unit Number | OCCUPANT'S SEATING |
|---|--|
| 2. Case Number - Stratum 95-08 3. Vehicle Number 02 | 10. Occupant's Seat Position Front Seat (11) Left side (12) Middle |
| 4. Occupant Number | (13) Right side (14) Other (specify): |
| OCCUPANT'S CHARACTERISTICS | (15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown 6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 6. Occupant's Weight Code actual weight to the nearest centimeters 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown 6. Occupant's Role (1) Driver (2) Passenger (9) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown 11. Occupant's Posture (0) Normal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown |
| | * |

| | | EJECTION/ | ENTRAPMENT |
|-----|---|---|-------------|
| 13. | (O) (1) (2) (3) (9) Ejec (O) (1) (2) (3) (4) (5) (6) (7) (8) (9) Ejec (O) | etion No ejection Complete ejection Partial ejection Ejection, unknown degree Unknown etion Area No ejection Windshield Left front Right front Left rear Right rear Rear Roof Other area (e.g., back of pickup, etc.) (specify): Unknown etion Medium No ejection Door/hatch/tailgate | |
| - | (3) (4) (5) | Nonfixed roof structure Fixed glazing Nonfixed glazing (specify): Integral structure Other medium (specify): | (9) Unknown |
| | (9) | Unknown | |
| | | | |
| | | | |

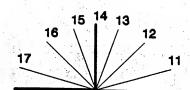
| BELT SYSTEM FUNCTION | | | |
|--|--|--|--|
| 18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown | (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position | | |
| Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): | (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ | | |
| (9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): | Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown | | |
| (O2) Shoulder belt (O3) Lap belt (O4) Lap and shoulder belt (O5) Belt used—type unknown | Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use | | |
| (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): | (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown | | |
| (99) Unknown if belt used 20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly | 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown | | |
| (2) Belt used properly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): | 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen | | |
| (9) Unknown 21. Manual (Active) Belt Failure Modes During Accident | (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system | | |
| (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) | (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes | | |
| (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor | During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate | | |
| (7) Combination of above (specify): | (4) Upper anchorage separated (5) Other anchorage separated (specify): | | |
| (8) Other manual belt failure (specify): (9) Unknown | (6) Broken retractor (7) Combination of above (specify): | | |
| | (8) Other automatic belt failure (specify): (9) Unknown | | |
| | | | |

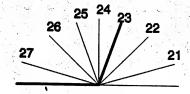
| POLICE REPORTED RESTRAINT USE | AIR BAG SYSTEM FUNCTION |
|--|---|
| | AIR DAG STSTEW FORCTION |
| 28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed | 30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown |
| (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" | (4) Deployed, details difficient (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown |
| | 32. Other Than First Seat Frontal Air Bag |
| Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [// Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used | Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: |
| in the second of | |
| | 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown |
| | 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): |
| | (9) Unknown |

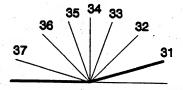
| FIRST SEAT FRONTAL | . AIR BAG SYSTEM EVALUATION |
|--|--|
| 35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at le one deployment (8) Previous accidents, unknown deployment status (9) Unknown 36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag | deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes |
| (8) Unknown type of air bag (9) Unknown | (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed |
| 37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? | 1 (9) Unknown |
| (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown | 42. Were Air Bag Module Cover Flap(s) Damaged? / (0) Not equipped/not available (1) No (2) Yes (specify): / (3) Deployed, unknown if air bag module cover flap(s) damaged |
| 38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available | (7) Not deployed (8) Unknown if deployed (9) Unknown |
| Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed | 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged |
| (98) Unknown if deployed (99) Unknown | Yes - Air Bag Damage (O2) Ruptured (O3) Cut (O4) Torn |
| 39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): | (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown |
| (6) Deployed, unknown event(7) Not deployed(8) Unknown if deployed(9) Unknown | (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown |
| | |

| FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued | HEAD RESTRAINT AND SEAT EVALUATION |
|---|--|
| 44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): 100 Actions Jocked of the 3/4 oclock (3) Deployed, unknown if tethered (9) Unknown 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed | 49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): |
| (9) Unknown 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown | 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown |
| 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown | |

| | HEAD RESTRAINT AND SE | AT EVALUATION continued |
|-----|--|-------------------------|
| 53. | Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position (18) Moved to completely forward position (19) Moved to completely rearward position (19) Moved to completely rearward position (20) Moved to rearward midrange position (21) Retained pre-impact position | 25 24 26 |
| | (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position (28) Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position | 35 34 36 37 |
| 54. | Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed | |
| | (specify): | |
| | (8) Other (specify): | |







| | CHILD SA | FET | Y SEAT | |
|-----|--|-----|--|--------------------------------|
| 55. | Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS | | 3. Child Safety Seat Harness Usage | 07 |
| | Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): | 59. |). Child Safety Seat Shield Usage | 00 |
| ų. | (998) Unknown make/model | 60. |). Child Safety Seat Tether Usage | 00 |
| | (999) Unknown if child safety seat used | *** | Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat | |
| 56. | Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): | | Not Designed With Harness/Shield/Te (01) After market harness/shield/teth added, not used (02) After market harness/shield/teth (03) Child safety seat used, but no a harness/shield/tether added (09) Unknown if harness/shield/tethe added or used | ner ner used fter market |
| *- | (8) Unknown child safety seat type (9) Unknown if child safety seat used | | Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used | |
| 57. | Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation | | (19) Unknown if harness/shield/tether Unknown If Designed With Harness/S (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether (99) Unknown if child safety seat use | hield/Tether |
| | Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): | | | |
| ٠ | Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): | | | |
| | (99) Unknown if child safety seat used | | | |

| INJURY CONSEQUENCES | |
|--|--|
| 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown | 63. Type Of Medical Facility (for Initial Treatment) / (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown |
| STOP WO | ORK HERE |

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

| INJURY CONSEQUENCES | TRAUMA DATA |
|--|---|
| Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown | 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured |
| 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): | 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported , HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured |
| (97) Other result (includes fatal ruled disease) (specify): (99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured | 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used |
| | |



U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

| | | | | | A.I.S 9 | 0 | | | | Injury | 7 | Occupant |
|-----------------|----------------|-----------------------------|----------------|----------------------------------|-----------------------------------|--------------------|--------------------|---------------------------|------------------|-------------------------------|-------------------------------|-----------------------------|
| | | Source of Injury Data | Body Region | Type of Anatomic Structure | Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Source Confidence Level | Direct/ Indirect Injury | Area Intrusion Number |
| Cos sade | 1st | 5.2 | 6 | 7. <u> </u> | 06 | 9. 07 | 10 | 11.6 12. | 160 | 13 1 | 41 | 5. 07 |
| in a | 1 2nd | 16.2 | 172 | 18.9 19 | .02 | 20. 07 | 21. <u>/</u> | 22. <u>8</u> 23 | 170 | 24/ 2 | 5 | 6. <u>07</u>) |
| Malle Not by | 3rd | 27_2 | 28. <u>4</u> | 229. <u>5</u> 30 | 02 | 31. <u>3 0</u> | 32. <u>3</u> | 33 34 | 150 | 35/ 3 | 6 3 | 7. <u>42</u> |
| (P) (u) | Z 4th | 38. 2 | 39. <u>4</u> | 40. 41 | ·44 | 42. 0 6 | 43. 3 | 44 45 | 152 | 46 4 | 7. 🖊 🛕 | 8. <u>0</u> |
| (B) Cheal A | n to | 49. 2 | 50. <u>4</u> | 51. <u>9</u> 52 | .24 | 53. <u>02</u> | 54. <u>/</u> | 65. <u>Z</u> 66. <u> </u> | 152 | | 8. <u> </u> | 9. <u>23</u> |
| Alm X a | der Ott | 60. <u>A</u> | 61. <i>4</i> | 62 . £ 63 | 00 | 64. <u>0</u> 2 | 65 | 66. 2 67 | 152 | -68 | 9 7 | o. <u>0</u> |
| conto | مديمور 7th | 71. 2 | 72. <u>Y</u> | 73.5 74 | 06 | 775. <u>0</u> 2 | 76. <u>/</u> | 77. <u>Z</u> 78 | 1 <i>5</i> 2 | 79. <u>/</u> 8 | 0. <u>/</u> 8 | 1. <i>0</i> 0 |
| EV (C) | Cellena Str | 82. <u>2</u> | 83. <u>Ø</u> | 84.5 85 | 11 | 86. <u>02</u> | 87.2 | β 88. <u>/</u> 89 | ide pich 0 10 | 90 9 | 1/9 | 2 <u>9</u> |
| fy C |) (art 9th | 93. 2 | 94. <u>X</u> | 96.5_ | . 22 | 97. <u>07</u> | 98. 2 | 99 | <u> 251</u> . | 101/10 | 2 10 | 3. <u>03</u> |
| fy@ | Fals- 10th | 104. 🔁 11 | 05, 💋 1 | o6. <u>5</u> 107 | 22 | 08. <u>19-1</u> 1 | بکے .وور | 6 10. <u> </u> | 1 | / 112. | 3 | . 07 |
| | | | | | | | | | | | | |

| 2 | OCCUPANT INJURY | | | | | | | | | | |
|--------------|-----------------------------|----------------|----------------------------------|---|--------------------|--------------------|--------|------------------|---|-------------------------------|--|
| × | Source of Injury Data | Body Region | Type of Anatomic Structure | A.I.S 90 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupar Area Intrusion Number |
| 11th | 2 | 8 | 5 | 22 | 20 | 2 | 2 | <u>26 1</u> | 1 | 1 | 03 |
|) 12th | 2 | 8 | 5 | <u> 22</u> | <u>00</u> | 2 | ۸ | <u> 251</u> | 1 | 1 | 0-1 |
|) (# 13th | 2 | <u>y</u> | 5 | 22 | <u>00</u> | 2 | ン | 251 | <u>_</u> | Ļ | 5 |
| 14th | _ | | _ | | | _ | _ | | _ | <u></u> | |
| 15th | _ | | _ | | | | _ | | | | |
| 16th | _ | | | | | _ | _ | | _ | | |
| 17th | <u> </u> | | _ | | | _ | _ | | | _ | |
| 18th | _ | | | | | _ | | | _ | _ | |
| 19th | _ | | _ | | | | | | _ | _ | |
| 20th | | _ | _ | | | _ | _ | | | _ | |
| 21st | _ | | | | | _ | | | _ | _ | |
| 22nd | | _ | _ | | | | _ | | _ | | |
| 23rd | | _ | _ | | | | _ | | _ | _ | |
| 24th | | _ | | | | _ | | | | _ | |
| 25th | _ | | _ | | | _ | _ | | | | |

OCCUPANT INJURY CLASSIFICATION

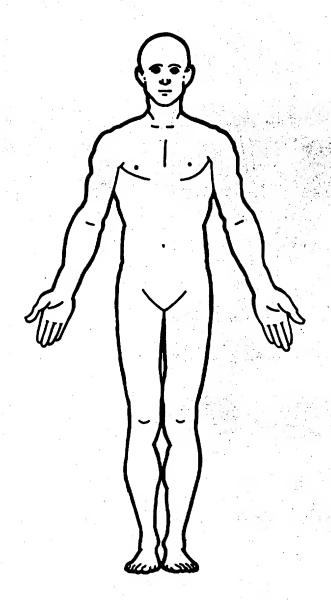
| Body Region | Specific Anatomic Structure | Level of Injury | Aspect |
|--|--|--|--|
| 1) Head | Structure 3 | Specific injuries are | (1) Right |
| 2) Face | | assigned consecutive | (2) Left 👉 🔭 📜 |
| 3) Neck | Vessels, Nerves, Organs. | two-digit numbers | (3) Bilateral 🐗 🛴 |
| 4) Thorax | Bones, Joints are assigned | beginning with 02.3 | (4) Central |
| 5) Abdomen | consecutive two digit | The second second second second second second second second second second second second second second second se | (5) Anterior |
| 6) 🧖 Spine 😘 🛴 📜 | 🐒 numbers beginning with 🎉 | To the extent possible, 🖏 | (6) 🥳 Posterior 🐞 🛰 💮 |
| 7) # Upper Extremity | 02. | within the organizational 🔊 | (7) 🥍 Superior 🎉 🛊 🚈 |
| 8) 🤃 Lower Extremity 🚁 🛪 | | framework of the AIS, 00 | (8) Inferior 🚜 🗼 |
| 9) Wunspecified | The exceptions to this rule | is assigned to an injury 🎉 | (9) Unknown 🦊 👯 🧀 |
| | apply to: | NFS as to severity or 🔊 🦠 | ; (0) Whole region is a decided |
| Mark Street Control of the Street | | where only one injury is 🎉 | A PROPERTY OF THE PARTY OF THE |
| Type of Anatomic | Whole Area | given in the dictionary for | |
| A Section of the sect | (02) Skin - Abrasion (1) (04) Skin - Contusion (1) | that anatomic structure. | |
| 1) Whole Area | (06) Skin - Laceration | injury NFS as to lesion or | |
| 2) Vessels | (08) Skin - Avulsion | severity. | |
| 3) Nerves | (10) Amputation | Sevenny. | |
| 4) Organs (includes 🔣 | (20) Burn | Abbreviated Injury Scale | |
| Muscles/ligaments) | (30) *Crush **** | The state of the s | |
| 5) Skeletal (includes | (40) Degloving | (1) * Minor Injury 🛊 🍇 🔊 | See Beauty |
| 🤲 joints) 🗇 🎏 😘 💮 | 🖟 (50) İnjury - NFS 🦠 🗼 | (2) Moderate Injury | A CONTRACT AND SOLVE |
| 6) Head - LOC | (90) Trauma, other than | (3) Serious Injury | to Austria, Karada Karasa |
| 9) Skin | mechanical 🕌 🤭 👯 | (4) Severe Injury | THE STREET STREET |
| | | 🖟 (5) 🦑 Critical Injury 🛺 🧎 | and the state of t |
| | Head - LOC | 《(6) 忆 Maximum 选择单 💩 | |
| | 、(02) Length of LOC 独家 | (untreatable) 🤲 🐩 | |
| | | (7) 🖟 Injured, unknown 🚱 | |
| | (04) Level | severity *** | "我们就是我们的,我们就是我们的。" |
| | ,(06) of <u>,</u> (08) Continued to the second | | |
| A STATE OF THE STA | (08) Consciousness | The second second | |
| | (10) Concussion | | 59 |
| · Control of the Cont | (10) Colicussion 7 | 14- 15- 15- 15- 15- 15- 15- 15- 15- 15- 15 | |
| | Spine | | |
| | (02) Cervical | | |
| S. Charles A. Charles S. Charles S. Charles | (04) Thoracic | | |
| · · · · · · · · · · · · · · · · · · · | | 。 1981年 - 1982年 - 1982年 - 1983年 - 198 | On the testing of the property of the property of the contract |
| | * (06) Lumbar 🛶 🥳 📜 | | |
| | * (06) Lumbar | | and the second second |

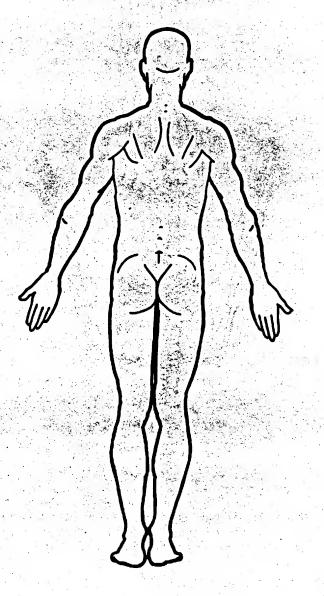
CONFIDENCE LEVEL (1) Certain OFFICIAL RECORDS (1) Autopsy records with or Direct contact injury without hospital/medical (2) Probable Indirect contact injury (2) records (3) Possible (3) Noncontact injury (2) Hospital/medical records other (9) Unknown (7) Injured, unknown source than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic **UNOFFICIAL RECORDS** (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify): (9) Police

| 917 | Construit Contraction of the Contraction of the | e the feet that | INJURY | TELEGISETT No. | Project free the strategy of the contract of t | and the second | and the second s |
|--|---|--------------------------|--|-------------------|--|--------------------|--|
| FRONT | | | Right aide hardware or | (183) | Air bag-pessenger side and | 7 2 37 775 | Wall mounted heed rest |
| (001) | Windahield | (建设) | armrest | 12 | object held | | (used behind wheel chai |
| (002) | Mirror | (103) | Right A (A1/A2)-piller | (184) | Air beg-passenger side and | (412) | Other adaptive device |
| (003) | Sunvisor | | Right B-pillar | (三) 特别人 | object in mouth | 1 | (specify): |
| | Steering wheel rim | 41 10 11 | Other right pillar (specify): | (185) | Air bag compertment | 1.62 | Septembries and the second |
| | Steering wheel hub/apoke | | | A Section | Cover-pessenger side | | Eng 1985 - 1990 - 1992 - 1995 |
| | Steering wheel (combination | (106) | Right side window glass | (186) | Air bag compartment | EVTE | DIOD of OCCUPANITIE |
| 1 1 | of codes 004 and 005) | (107) | Right aide window frame | 100 | cover-passenger side and | | RIOR of OCCUPANT'S |
| | Steering column, | 6.30 | Right side window sill | | eyewear | VEHIC | 5万元文的为为自然为自然或是成为 |
| | trenamission selector lever. | (109) | 2017年 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 1日 | /107 | 我一个一个一个一个人的 人名英格兰人姓氏 有 有 有 人名英格兰人名 | Strate and the | Hood |
| 23 E 1 2 Y | other attachment | | including one or more of the | | Air bag compertment | (402) | Outaide hardware (e.g., |
| | Cellular telephone or CB | 44 | following: frame, window | 7 W. 12 | cover-pessenger side and | 1,00 | outside mirror, antenna) |
| 2 - 1 1 164 | radio | 10.15 | aill, A (A1/A2)-pillar, B-pillar, | (188) | jewelry | (403) | Other exterior auriace o |
| | Add on equipment (e.g., | | or roof aide rail. | -13 | Air beg compartment | 6 | tires (specify): |
| 100 | tape deck, air conditionar) | (110) | Other right side object | | cover-passenger side and | 100 | |
| | Left instrument panel and | in the | · · · · · · · · · · · · · · · · · · · | 1100 | object held | | |
| 4 | below | 2.0 | (specify): | (109) | Air beg compartment | (454) | Unknown exterior objec |
| 4 45.5 | Center instrument panel and | | | | cover-pessenger side and | | Carlo Maria |
| | below | INTER | IOP | | object in mouth | A 7 17 18 18 18 18 | RIOR OF OTHER MOTOR |
| (012) | | 1.121 | recommended to the first the second of the second | (190) | Other air bag (specify) | VEHIC | 。 · · · · · · · · · · · · · · · · · · · |
| ,0141 | Right instrument panel and below | 1, | Seet, back support | 15 等形 | | | Front bumper |
| 10121 | · 在一点都将是一个。 | (102) | Belt restraint | (195) | Other air bag compartment | (502) | Hood edge |
| 2011 | Glove compartment door | 1450 | webbing/buckle | | cover (specify) | (503) | Other front of vehicle |
| 2007 100 | Knee bolster | (153) | ti i i i kaji kaja visla viti kaja presiti i i i i i i i i i i i i | | | | (apecify): |
| 100000000000000000000000000000000000000 | Windshield including one or | P. Piles | frame attachment point | 347,50 | | 44.75 | A STATE OF THE STA |
| | more of the following: front | (154) | Other restraint system | ROOF | | (504) | Hood |
| | header, A (A1/A2)-pillar, | ·音学的人 | component (apecify): | (201) | Front header | (505) | Hood ornament |
| . Sec | instrument panel, mirror, or | | Service Strain Control of the Contro | (202) | Reer header | (506) | Windahield, roof rail, A- |
| 7 . 1 . Sec. 1 | steering assembly (driver | 15 | Head restraint aystem | (203) | Roof left aide rail | (507) | Side surface |
| 1 1 1 1 | side only) | (160) | Other occupents (apecify): | (204) | Roof right side rail | (508) | Side mirrors |
| | Windshield including one or | | | (205) | Roof or convertible top | (509) | Other side protrusions |
| | more of the following: front | 4. | Interior loose objects | | | | (specify): |
| 1 4 2 2 3 | heeder, A (A1/A2)-piller, | (162) | Child safety seat (specify): | FLOOI | | | 的数数,2017年 的第三 |
| | instrument panel, or mirror | | | (251) | Floor (including toe pan) | (510) | Rear aurface |
| | (passenger side only) | (163) | Other interior object | (252) | Floor or console mounted | (511) | Undercarriage |
| (017) | Windshield reinforced by | | (specify): | | trensmission lever, including | (512) | Tires and wheels |
| - | exterior object (specify) | 12.12 | | 11. | Console | (513) | Other exterior of other |
| 77 | | | SERVICE STREET | (253) | Perking brake handle | 经营业 | motor vehicle (specify): |
| (019) | Other front object (specify): | AIR B | AG | (254) | Foot controls including | | |
| an and an and an an an an an an an an an an an an an | | (170) | Air bag-driver side | | perking breke | | April 200 April |
| 4.00 | | (171) | Air bag-driver aide and | | | (514) | Unknown exterior of oth |
| LEFT S | | 17 1 180 | eyewear 💮 😘 | REAR | | | motor vehicle |
| (051) | Left side Interior aurface, | (172) | Air bag-driver side and | 2 (301) | Backlight (rear window) | N | of Int Committee was |
| 性性的 | excluding hardware or | 14. VIII. | jewelry | (302) | Backlight storege rack, | OTHE | R VEHICLE OR OBJECT II |
| | armrests | (173) | Air bag-driver sida and | 开始 | door, etc. | | NVIRONMENT |
| (052) | Left side herdwere or | 1 - 1 | object held | (303) | Other rear object (specify): | | Ground |
| | armrest | (174) | Air bag-driver side and | 31 434 | | (598) | |
| | Left A (A1/A2)-pillar | | object in mouth | | | figure 1 | (apecify): |
| (054) | Left B-pillar | (175) | Air bag compartment | ADAP | TIVE (ASSISTIVE) DRIVING | S 15 | la de esta |
| (055) | Other left pillar (specify): | V - 4 | cover-driver alde | | MENT | (599) | Unknown vehicle or obje |
| | | (176) | Air bag compartment | | Hand controls for | ,500) | |
| (056) | Left side window glasa | * • | cover-driver side and | - 404 | breking/acceleration | NONC | CONTACT INJURY |
| (057) | Left side window frame | | eyawear | (402) | Steering control devices | | |
| | Left side window sill | · (177) | Air bag compartment | , -02/ | (etteched to OEM steering | | Fira in vehicla |
| (059) | Left aide window glasa | | cover-driver alde and jewelry | 1 - | wheel) | | Flying glass |
| | including one or more of the | (178) | Air bag compartment | (403) | | (603) | Other noncontact injury |
| | following: frame, window | | cover-driver aide and object | 1-1001 | Steering knob attached to | • - | aource |
| | sill, A (A1/A2)-pillar, B-pillar, | | held | (405) | Replacement steering wheel | 1000 | (specify): |
| | or roof side rail. | (179) | Air bag compartment | (05) | | | Air bag exhaust gases |
| (060) | Other left side object | | cover-driver side and object | 1400 | (i.e., reduced diameter) | (697) | Injured, unknown source |
| | (specify): | * | and the second s | (406) | Joy stick steering controls | - 2 - 2 | |
| | | (190) | in mouth | (407) | Wheelchair tie-downs | 1 7000 | |
| 4.5 | | • | Air bag-passenger side | (408) | Modification to seat belts, | | |
| RIGHT | SIDE | (101) | Air bag-passenger side and | 1400 | (apecify): | 14 | TANGET TO THE TANK |
| | Right sida Interior surface, | (102) | Air bas passages side and | (409) | Additional or relocated | 1 Spice | Contract |
| | excluding hardwara or | (182) | | | switches, (apecify): | | |
| | armrests | $\alpha_0 \vdash \tau_1$ | je weiry | | | | |
| | | | | (410) | Raised roof | | |

OFFICIAL INJURY DATA - SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

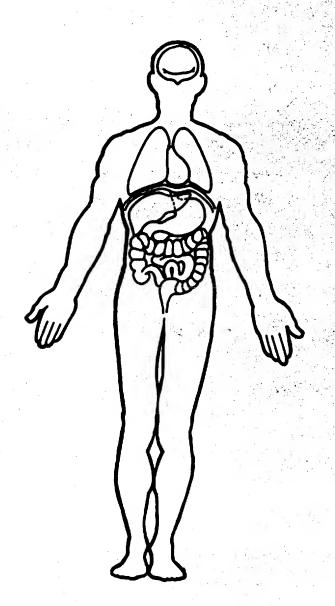


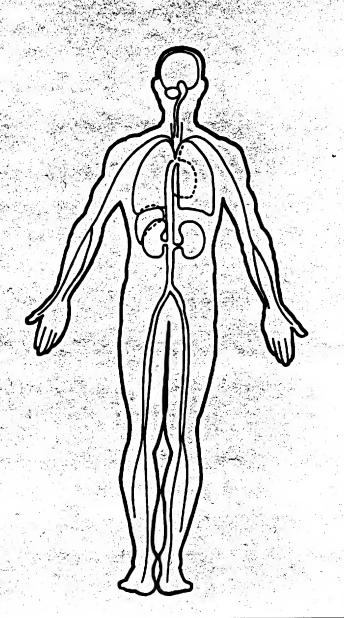


| | OFFICIAL INJURY DATA — SKELETAL INJURIES |
|---|--|
| Restrained? No Yes | Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.) |
| Blood Alcohol Level (mg/dl) BAL = | |
| Glasgow Coma Scale Score GCSS = | |
| Units of Blood Given | |
| Units = Arterial Blood Gases | |
| pH = PO ₂ = PCO ₂ | |
| HCO ₃ | |
| | |

OFFICIAL INJURY DATA - INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)







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U.S. Department of Transportation
National Highway Traffic Safety
Administration

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

| 1. Primary Sampling Unit Number | OCCUPANT'S SEATING |
|---|---|
| 2. Case Number - Stratum 95-08 | 10. Occupant's Seat Position Front Seat |
| 3. Vehicle Number | (11) Left side (12) Middle |
| 4. Occupant Number <u>0</u> 2 | (13) Right side |
| OCCUPANT'S CHARACTERISTICS | (14) Other (specify):(15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant |
| 6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown | Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): |
| 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 6 6 inches X 2.54 = centimeters | (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown |
| 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown 1 | 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with |
| 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown | (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown |
| | |

| 12. Ejection (1) No ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown 13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Doorshatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Unknown 15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (0) Not eintrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant attal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle while unconscious or disoriented (3) Exited vehicle unifer own power (5) Occupant fully ejected (9) Unknown 17. Occupant fully ejected (9) Unknown | EJE | CTION/E | NTRAPMENT |
|--|--|---------|---|
| (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (9) Integral structure (8) Other medium (specify): (10) Not entrapped/exit not inhibited (11) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown 17. Occupant follows (1) Removed from vehicle due to injuries (3) Exited vehicle under own power (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown | (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree | 0 | (0) No ejection (1) Open (2) Closed (3) Integral structure |
| (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): | (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown | | (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): |
| | (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): | | (5) Occupant fully ejected |
| | | | |

| | BELT SYSTE | M FUNCTION |
|--|---|--|
| (0) (1) (2) (3) (4) | Anual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available—type unknown | 22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position |
| <i>Int</i> (6) (7) (8) | egral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify): | (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ |
| (00 (01 (02 (03 (04 (05 | Unknown Inual (Active) Belt System Use O Hone used, not available, or belt removed/destroyed I Inoperative (specify): Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown Other belt used (specify): | Function (O) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (O) Not equipped/not available/destroyed or rendered inoperative |
| (13 (14 (15 (18 (99 | Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat—type unknown Other belt used with child safety seat (specify): Unknown if belt used | (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system |
| (0) (1) (2) <i>Bel</i> (3) (4) (5) (6) (7) | None used or not available Belt used properly Belt used properly with child safety seat It Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen Lap belt or lap and shoulder belt used improperly with child safety seat (specify): Other improper use of manual belt system (specify): Unknown | (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or |
| (a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d | nual (Active) Belt Failure Modes ring Accident No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not included) Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify): Broken retractor Combination of above (specify): Other manual belt failure (specify): | automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): |
| | | (9) Unknown |

| POLICE REPORTED RESTRAINT USE | AIR BAG SYSTEM FUNCTION |
|---|---|
| 28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" | 30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available |
| Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [| 32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: |
| | Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): |

| | FIRST SEAT FRUNTAL AIR | BAG SYSTEM EVALUATION |
|-----|--|--|
| 35. | Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown | 40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown |
| 36. | Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown | 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed |
| | Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown Air Bag Deployment Accident Event | (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? / (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed |
| | Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown | (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn |
| 39. | CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown | (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown |

| FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued | HEAD RESTRAINT AND SEAT EVALUATION |
|---|--|
| 44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown | 49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints Full Down Position (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) |
| 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): 1 - laferal (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown | (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat |
| 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown | (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact 3 (0) Occupant not seated or no seat |
| 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown | (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown |
| 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses danaged (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown | |

HEAD RESTRAINT AND SEAT EVALUATION continued 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position . (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99). Unknown 54. Seat Performance (this Occupant Position) Sent tracked jamuel (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify): (7) Combination of above (specify): (8) Other (specify): (9) Unknown

| | CHILD SAF | ETY SEAT |
|-----|--|---|
| 55. | Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): | 58. Child Safety Seat Harness Usage 59. Child Safety Seat Shield Usage 60. Child Safety Seat Tether Usage |
| 56. | (998) Unknown make/model (999) Unknown if child safety seat used Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat | Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used |
| | (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used | (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used |
| | Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used | (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used |
| | | |

| INJURY CONSEQUENCES | |
|---|--|
| INJURY CONSEQUENCES 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown | 63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost (99) Unknown 65. Working Days Lost (100 Lost from work due to the accident (100) No working days lost (100) No working days lost (100) No working days lost (100) Not working prior to accident (100) Not working prior to accident (100) Unknown |
| | • |
| STOP WO | ORK HERE |

VARIABLES 66-74

| IN HIPV CONSEQUENCES | |
|--|---|
| INJURY CONSEQUENCES | TRAUMA DATA |
| Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown | 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured |
| 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death | 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): |
| 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled | 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured |
| disease) (specify): | BELT USE DETERMINATION |
| 70. Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured | 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used |
| | • |

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U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 2. Case Number Stratum

95.08

A.I.S. - 90

- 3. Vehicle Number
- 4. Occupant Number

Occupant

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

| | Source of Injury Data | Body | | | Level of | A.I.S. | Aspect | Injury (| Source Direct Confidence Indirect Level Injury | t Intrusio |
|-------------|-----------------------------|--------------|-------------------------|----------------|-----------------|--------|------------------|-------------|--|--------------|
| 1st | 5. <u>2</u> | 6. <u>/</u> | 7. 1 | 8.04 | 9. 02 | 10 | 11. 9 12. | FR) 1601 | 3. <u>2</u> 14. <u>/</u> | 15. <u>0</u> |
| | | | | | | | | | 4 25 | |
| 3rd | 27.2 | 28. 5 | 29. | 30. <u>0</u> G | 31. <u>0_</u> 2 | 32 | 33. <u>Z</u> 34. | 1523 | 5. <u>/</u> 36. <u>/</u> | 37. <u>Ø</u> |
| 4th | 38.2 | 39. | 40. <u>9</u> | 41. <u>0 2</u> | 42. <u>0</u> 2 | 43./ | 44. <u>3</u> 45. | 152 | 47. <u>/</u> | 48. <u>Ø</u> |
| | | | | | | | | | 7 / _{58.} | |
| | 60.2 | 61. <u>§</u> | 62. 9 | 63.0_2 | 64. <u>0</u> 2 | -65 | 66 67. | 0_126 | 8 69 | 70. <u>O</u> |
| Ofne 7th | ⁴ 71. <u>2</u> | 72 | _{73.} <u>9</u> | 74. <u>09</u> | 75. <u>62</u> | 76 | 77. 👤 78. (| 0137 | 9/ 80/ | 81. <u>Æ</u> |
| 8th | 82 | 83 | 84 | 85 | 86 | 87 | 88 89 | 9 | 91 | 92 |
| 9th | 93 | 94 | 95 | 96 | 97 | 98 | 99 100. | 10 | 102 | 103 |
| 10th | 104 | 105 1 | 06 1 | 07 | 108 | 109 | 110 111. | 11 | 2 113 | 114 |

| | | | | | JPANT | NJURY | DATA | | | | |
|------|-----------------------------|----------------|----------------------------------|---|--------------------|--------------------|-------------|------------------|---|-------------------------------|---|
| | Source of Injury Data | Body Region | Type of Anatomic Structure | A.I.S 90 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupant Area Intrusion Number |
| 11th | _ | | _ | | | _ | _ | | _ | | |
| 12th | | | | | | | | | _ | _ | |
| 13th | _ | _ | _ | | | _ | _ | | _ | _ | |
| 14th | _ | _ | _ | | | | | | _ | _ | |
| 15th | _ | _ | _ | | | _ | _ | | | _ | |
| 16th | | _ | | | | | | | | | |
| 17th | _ | _ | _ | | | | | | | | |
| 18th | | _ | | | | _ | | | _ | _ | |
| 19th | _ | | _ | | | _ | _ | | · _ | _ | |
| 20th | | | | | | _ | _ | | | _ | |
| 21st | _ | _ | _ | | | _ | _ | | . | | |
| 22nd | _ | _ | _ | | | | | | | | |
| 23rd | _ | _ | | | | _ | | | - | | |
| 24th | | _ | _ | | | _ | _ | | | | |
| 25th | _ | | | | | | | | | | |

OCCUPANT INJURY CLASSIFICATION **Body Region** Specific Anatomic Level of Injury Aspect Structure Specific injuries are Right (1)Head (1) (2)Face assigned consecutive (2) Left (3)Neck two-digit numbers Bilateral Vessels, Nerves, Organs. (3)(4)Thorax Bones, Joints are assigned beginning with 02. (4) Central in Anterior (5)Abdomen consecutive two digit (5) Posterior numbers beginning with (6)Spine To the extent possible, (6)Superior 4. (7)Upper Extremity within the organizational (7) (8) Lower Extremity framework of the AIS, 00 (8) Inferior is assigned to an injury (9) Unspecified The exceptions to this rule (9) Unknown NFS as to severity or apply to: (0)Whole region where only one injury is Whole Area given in the dictionary for Type of Anatomic Structure (02) Skin - Abrasion that anatomic structure. Los of a set of the (04) Skin - Contusion 99 is assigned to any Whole Area (06) Skin - Laceration injury NFS as to lesion or (08) Skin - Avulsion (2)Vessels severity. Nerves (10) Amputation (3)(4)Organs (includes (20) Burn Abbreviated Injury Scale Muscles/ligaments) (30)Crush Degloving (5) Skeletal (includes (40)Minor Injury Moderate Injury ioints) (50)Injury - NFS (2)(6) Head - LOC (90)Trauma, other than (3) Serious Injury (9)Skin mechanical (4)Severe Injury Critical Injury (5)Head - LOC (6)Maximum (02) Length of LOC (untreatable) (7)Injured, unknown severity (04) Level (06) of (08) Consciousness (10) Concussion <u>Spine</u> (02) Cervical (04) Thoracic (06) Lumbar **SOURCE OF INJURY DATA INJURY SOURCE** DIRECT/INDIRECT INJURY CONFIDENCE LEVEL OFFICIAL RECORDS (1) Autopsy records with or (1) Certain Direct contact injury without hospital/medical (2) Probable (2) Indirect contact injury records (3) Possible (3) Noncontact injury (2) Hospital/medical records other (9) Unknown Injured, unknown source than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

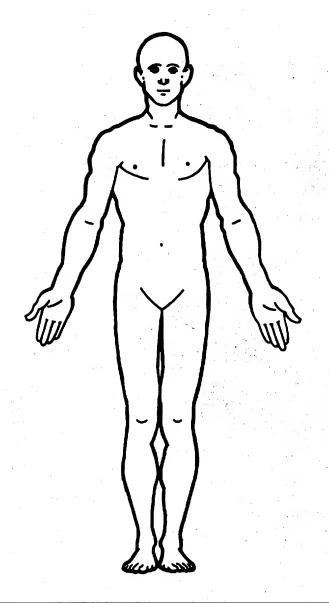
(5) Lay coroner report(6) E.M.S. personnel(7) Interviewee

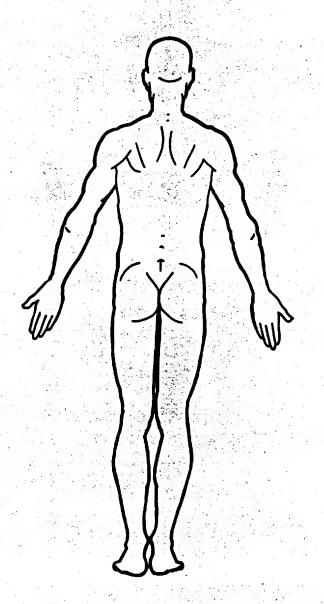
(9) Police

(8) Other source (specify):

| | | | INJURY S | SOUR | CES | | |
|--------------|--|-------------|--|----------|--|----------|--|
| FRONT | | (102) | Right side hardware or | (192) | Air han naccancer side and | | Weller Control of the world |
| | Windshield | (102) | armrest | (103) | Air bag-passenger side and | (411) | Wall mounted head rest |
| | | (100) | 7-2 | 4404 | object held | 3 - 13 1 | (used behind wheel chair) |
| | Mirror | | Right A (A1/A2)-pillar | (184) | Air bag-passenger side and | (412) | Other adaptive device |
| | Sunvisor | | Right B-pillar | | object in mouth | | (specify): |
| | Steering wheel rim | (105) | Other right pillar (specify): | (185) | Air bag compartment | 6 | |
| | Steering wheel hub/spoke | | J +17 4 1 3 | 2 * 1, 1 | cover-passenger side | | |
| (006) | Steering wheel (combination | (106) | Right side window glass | (186) | Air bag compartment | EXTER | RIOR of OCCUPANT'S |
| | of codes 004 and 005) | (107) | Right side window frame | | cover-passenger side and | VEHIC | LE STATE OF THE ST |
| (007) | Steering column, | (108) | Right side window sill | | eyewear | | Hood |
| | transmission selector lever, | (109) | Right side window glass | (187) | Air bag compartment | 2 0.5 | Outside hardware (e.g., |
| 46 | other attachment | 11.5 | The state of the s | 11077 | | (452) | P. 1 |
| 1000 | | | including one or more of the | *** | cover-passenger side and | | outside mirror, antenna) |
| (000) | Cellular telephone or CB | 122 | following: frame, window | | jewelry | (453) | Other exterior surface or |
| 10 | radio | 54 TY | sill, A (A1/A2)-pillar, B-pillar, | (188) | Air bag compartment | | tires (specify): |
| (009) | Add on equipment (e.g., | V = 1 × 4 × | or roof side rail. | A. S V. | cover-passenger side and | A. A. |) <u>4.10,427 - 2.4,479,</u> 413,413, |
| - 1 35 55 | tape deck, air conditioner) | (110) | Other right side object | | object held | | ge to the track of A state |
| (010) | Left instrument panel and | or. | (specify): | (189) | Air bag compartment | (454) | Unknown exterior objects |
| · King | below | | | Jarla I | cover-passenger side and | 38.80 | Yang Sandar |
| (011) | Center instrument panel and | | Esperatus de la companya del companya del companya de la companya | 11/4 | object in mouth | EVTE | NOD OF OTHER MOTOR |
| 1 | below | INTER | OR | (100) | | 1 | RIOR OF OTHER MOTOR |
| (012) | | | | (190) | Other air bag (specify) | VEHIC | |
| 10121 | Right instrument panel and | | Seat, back support | | | 4.0 | Front bumper |
| | below | (152) | Belt restraint | (195) | Other air bag compartment | (502) | Hood edge |
| (013) | Glove compartment door | | webbing/buckle | | cover (specify) | (503) | Other front of vehicle |
| (014) | Knee bolster | (153) | Belt restraint B-pillar or door | | | | (specify): |
| (015) | Windshield including one or | 1 1 1 2 | frame attachment point | - 1 | The state of the s | | er#erica Andrews |
| | more of the following: front | (154) | Other restraint system | ROOF | | (504) | Hood |
| | header, A (A1/A2)-pillar, | | component (specify): | | Front header | 100 | Hood ornament |
| * | instrument panel, mirror, or | 3 -0 | in the Bearing | | | | |
| | | (4 FE) | | | Rear header | | Windshield, roof rail, A-pill |
| - | steering assembly (driver | | Head restraint system | | Roof left side rail | (507) | Side surface |
| | side only) | (160) | Other occupants (specify): | . (204) | Roof right side rail | (508) | Side mirrors |
| (016) | Windshield including one or | 120 10 | Color of the Color | (205) | Roof or convertible top | (509) | Other side protrusions |
| | more of the following: front | (161) | Interior loose objects | - 1 | | | (specify): |
| | header, A (A1/A2)-pillar, | (162) | | FLOO | a de la companya della companya della companya de la companya dell | | |
| * | instrument panel, or mirror | | and the second of the | | - Miles | (510) | Poor curfoos |
| | (passenger side only) | (162) | Other interior chiese | | Floor (including toe pan) | 1 | Rear surface |
| 1017 | | (103) | Other interior object | (252) | Floor or console mounted | 1.2 | Undercarriage |
| (017) | Windshield reinforced by | 0 | (specify): | y View | transmission lever, including | (512) | Tires and wheels |
| - | exterior object (specify) | | and reserve an age of Page 1 | 11 1 1 1 | console | (513) | Other exterior of other |
| | | | | (253) | Parking brake handle | E. S. 1 | motor vehicle (specify): |
| (019) | Other front object (specify): | AIR B | AG | | Foot controls including | | |
| | g | (170) | Air bag-driver side | ξ. · · · | parking brake | | |
| | | | Air bag-driver side and | 1-2 | herming prace | 1544 | 11-1 |
| LEFT S | RIDE | | And the second s | Berr | | (514) | Unknown exterior of other |
| | The state of the s | | eyewear | REAR | | - · | motor vehicle |
| (1001) | Left side interior surface, | (172) | Air bag-driver side and | | Backlight (rear window) | | |
| | excluding hardware or | The Me | jewelry | (302) | Backlight storage rack, | OTHE | R VEHICLE OR OBJECT IN |
| | armrests | (173) | Air bag-driver side and | . 41 | door, etc. | | ENVIRONMENT |
| (052) | Left side hardware or | | object held | (303) | Other rear object (specify): | • | Ground |
| | armrest | (174) | Air bag-driver side and | | solver (about 1). | | |
| (053) | Left A (A1/A2)-pillar | , | object in mouth | | . | (556) | Other vehicle or object |
| | Left B-pillar | /175 | | | The 44 0010 | | (specify): |
| | | (175) | Air bag compartment | | TIVE (ASSISTIVE) DRIVING | | |
| (000) | Other left pillar (specify): | | cover-driver side | EQUIP | MENT | (599) | Unknown vehicle or objec |
| | | (176) | Air bag compartment | (401) | Hand controls for | - | |
| (056) | Left side window glass | • | cover-driver side and | • | braking/acceleration | NONC | CONTACT INJURY |
| (057) | Left side window frame | | eyewear | (402) | Steering control devices | | Fire in vehicle |
| (058) | Left side window sill | (177) | Air bag compartment | | (attached to OEM steering | | 10 |
| | Left side window glass | , | cover-driver side and jewelry | | - LX | | Flying glass |
| 1 | including one or more of the | /170 | | | wheel) | (603) | Other noncontact injury |
| | . . | (1/6) | Air bag compartment | (403) | Steering knob attached to | | source |
| | following: frame, window | | cover-driver side and object | | steering wheel | | (specify): |
| | sill, A (A1/A2)-pillar, B-pillar, | | held | (405) | Replacement steering wheel | (604) | Air bag exhaust gases |
| | or roof side rail. | (179) | Air bag compartment | | (i.e., reduced diameter) | | Injured, unknown source |
| (060) | Other left side object | | cover-driver side and object | (406) | Joy stick steering controls | ,5077 | |
| | (specify): | | in mouth | | _ | | 0.0 |
| | | /190 | the state of the s | | Wheelchair tie-downs | | |
| | | | Air bag-passenger side | (408) | Modification to seat belts, | | |
| DIC: :- | CIDE | (181) | Air bag-passenger side and | * | (specify): | | |
| RIGHT | | | eyewear | (409) | Additional or relocated | | 0 |
| (101) | Right side interior surface, | (182) | Air bag-passenger side and | | switches, (specify): | * | |
| | excluding hardware or | 9.5 | jewelry | | | | |
| | armrests | | | (410) | Paised roof | | |
| | | | at A | (410) | Raised roof | | |

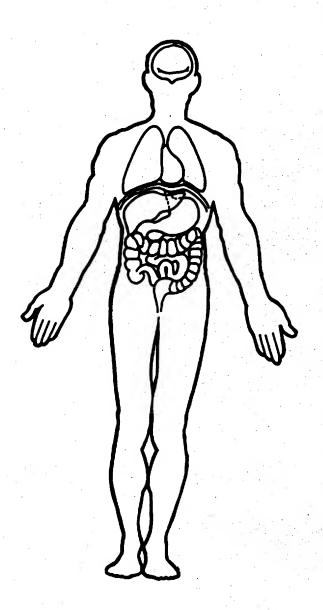
OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

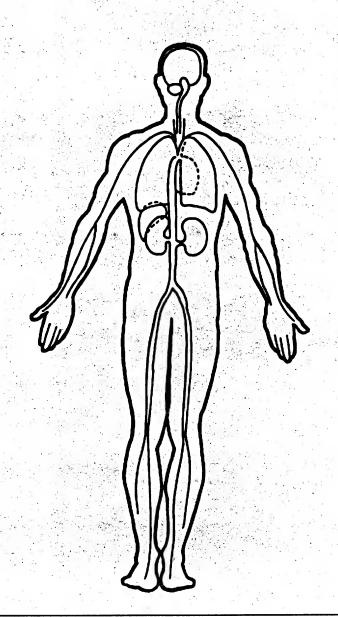




| | OFFICIAL INJURY DATA — SKELETAL INJURIES |
|--------------------------------|--|
| Restrained? | |
| No | Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are |
| Yes | unavailable.) |
| | |
| Blood Alcohol Level (mg/dl) | |
| BAL = | |
| | |
| Glasgow Coma Scale Score | |
| GCSS = | |
| | |
| Units of Blood Given | |
| Units = | |
| | AL BORES W |
| Arterial Blood | |
| Gases | |
| pH = | |
| PO ₂ = | |
| PCO ₂ | |
| нсо, | $\lambda \lambda $ |
| 0. | |
| | |
| 14. | |
| * | |
| | |

OFFICIAL INJURY DATA -INTERNAL INJURIES







U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety
Administration

| Primary Sampling Unit Number | OCCUPANT'S SEATING |
|---|--|
| 2. Case Number - Stratum 9 5-0 8 | 10. Occupant's Seat Position Front Seat |
| 3. Vehicle Number2 | (11) Left side (12) Middle |
| 4. Occupant Number <u>0</u> 3 | (13) Right side |
| OCCUPANT'S CHARACTERISTICS | (14) Other (specify):(15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat |
| 6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown | (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): |
| 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 44 inches X 2.54 = centimeters | (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown |
| 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown | 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): |
| | |

| | EJ | ECTION/E | NTRAPMENT |
|-----|--|----------|--|
| 12. | Ejection (O) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown | 0 | 15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown |
| | Ejection Area (O) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc. (specify): (9) Unknown Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): | <u>0</u> | 16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown |
| | (5) Integral structure (8) Other medium (specify): (9) Unknown | | |
| | | | |

| BELT SYSTEM FUNCTION | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| 18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) | 22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper | | | | | | | |
| (8) Other belt (specify): (9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown | anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use | | | | | | | |
| (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used | (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system | | | | | | | |
| 20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat **Belt Used Improperly** (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): | (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or | | | | | | | |
| (9) Unknown 21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): | automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): | | | | | | | |

| 28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" 30. Frontal Air Bag System Availability/Function (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision ever during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed | POLICE REPORTED RESTRAINT USE | AIR RAC SVETERA FUNCTION |
|---|--|--|
| Availability/Function (This Occupant Position) (1) None used (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" Availability/Function (O) Not equipped/not available (1) Air bag disconnected (specify): (2) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (O) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision ever during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed | CEISE HEI SHIED HESTHARF GGE | AIR BAG SYSTEM FUNCTION |
| 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" (1) Cocupant Position (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision ever during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed | (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt | Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled |
| | 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed | (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed |
| Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed | Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [I/] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): | Availability/Function (This Occupant Position) (O) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown |
| Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown | | Seat Frontal (This Occupant Position) (O) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): |

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form

| | FIRST SEAT FRONTAL AIR | BAG SYSTEM EVALUATION |
|-------------|--|---|
| 35. | Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown | 40. Longitudinal Component of + Delta V For Air Bag |
| 36. | Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown | 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed |
| ٠ | Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown Air Bag Deployment Accident Event | (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? O (0) Not equipped/not available (1) No (2) Yes (specify): |
| 3 3. | Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown | (8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn |
| 39. | CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown | (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown |

| FIRST SEAT FRONTAL AIR BAG SY EVALUATION continued | STEM | HEAD RESTRAINT AND SEAT EVALUATION |
|---|------------|---|
| 44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify (03) Object carried by occupant, (specify) (04) Adaptive/assistive controls, (specify) (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed |): | 49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench |
| (98) Unknown if deployed (99) Unknown 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps | _ <u>O</u> | (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): |
| (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): | <u>o</u> . | (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): |
| (3) Deployed, unknown if vent ports pro (7) Not deployed (8) Unknown if deployed (9) Unknown 47. Was the Air Bag in this Occupant's Post Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): | | (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions |
| (3) Deployed, unknown if other occupa to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear wor | _0_ | (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown |
| (7) Not deployed (8) Unknown if deployed (9) Unknown | | |

HEAD RESTRAINT AND SEAT EVALUATION continued

53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable

Upright prior to impact

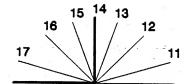
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

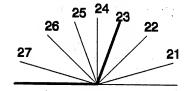
Slightly reclined prior to impact

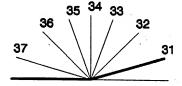
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







| | CHILD SAF | FETY SEAT |
|-----|---|--|
| E E | | |
| 55. | Child Safety Seat Make/Model (000) No child safety seat | 58. Child Safety Seat Harness Usage |
| | Applicable codes are found in your NASS CDS | |
| | Data Collection, Coding and Editing | 59. Child Safety Seat Shield Usage |
| | (950) Built-in child safety seat | |
| | (997) Other make/model (specify): | |
| | (998) Unknown make/model | 60. Child Safety Seat Tether Usage |
| 0 | (999) Unknown if child safety seat used | Note: Options below as allegely |
| | too, outline with a suitery sour used | Note: Options below applicable to Variables OA58-OA60. |
| | | (00) No child safety seat |
| 56. | Type of Child Safety Seat | |
| ĺ | (0) No child safety seat | Not Designed With Harness/Shield/Tether |
| | (1) Infant seat | (01) After market harness/shield/tether |
| · · | (2) Toddler seat (3) Convertible seat | added, not used |
| | (4) Booster seat - with shield | (02) After market harness/shield/tether used |
| | (5) Booster seat - without shield | (03) Child safety seat used, but no after market harness/shield/tether added |
| | (7) Other type child safety seat (specify): | (09) Unknown if harness/shield/tether |
| | | added or used |
| | (8) Unknown child safety seat type | |
| | (9) Unknown if child safety seat used | Designed With Harness/Shield/Tether |
| | | (11) Harness/shield/tether not used (12) Harness/shield/tether used |
| 57. | Child Safety Seat Orientation | (12) Unknown if harness/shield/tether used |
| | (00) No child safety seat | The state of the s |
| | | Unknown If Designed With Harness/Shield/Tether |
| | Designed for Rear Facing for This Age/Weight (01) Rear facing | (21) Harness/shield/tether not used |
| | (02) Forward facing | (22) Harness/shield/tether used |
| | (08) Other orientation (specify): | (29) Unknown if harness/shield/tether used |
| | | (99) Unknown if child safety seat used |
| | (09) Unknown orientation | 32.03, 332. 333 |
| | Designed For Forward Facing for This Age/Weight | |
| | (11) Rear facing | * |
| | (12) Forward facing | |
| | (18) Other orientation (specify): | |
| | (19) Unknown orientation | |
| | Unknown Design or Orientation For This | |
| | Age/Weight, or Unknown Age/Weight | |
| | (21) Rear facing | |
| | (22) Forward facing | |
| | (28) Other orientation (specify): | • |
| | (29) Unknown orientation | |
| | (99) Unknown if child safety seat used | |
| | | |

| INJURY CONSEQUENCES | |
|--|---|
| 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown | 63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Lubeling Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown |
| STOP WO | JBK HEDE |

VARIABLES 66-74

| INJURY CONSEQUENCES | TRAUMA DATA |
|--|---|
| Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown | 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured |
| 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify): (99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured | 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured BELT USE DETERMINATION 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used |
| I | |



Administration

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 2. Case Number Stratum

95-08

- 3. Vehicle Number
- 4. Occupant Number

02

03

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

| | · , | Source of Injury Data | Body Region | Type of Anatomic Structure | A.I.S 9 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupant Area Intrusion Number |
|---------|-------------------|-----------------------------|----------------|----------------------------------|--|--------------------|--------------------|------------------|------------------|---|-------------------------------|---|
| Unc | ist . | ° 5. <u>2</u> | 6 | 7. <u>6</u> 8 | . <u>08</u> | 9.24 | 10. 5 | 11. <u>0</u> 12. | 960 | 13/ 1 | 4 | 15. <u>0</u> |
| lae | Saly 2nd | 16. <u>2</u> | 17 | 189 19 | . <u>06</u> | 20. <u>04</u> | 21 | 22. <u>5</u> 23. | 160 | 24. / 2 | ь. <u>/</u> з | 26. 0 |
| Sha | U-Gyba 3rd | 27.2 | 28 | 29. 5 39 | <u>04</u> | 31. <u>06</u> | 32. <u> </u> | 33 34. | 160 | 35/3 | 6. <u>/</u> : | 17. <u>07</u> |
| 8/ | / /4th | 38.2 | 39 | 4041 | <u>.24</u> | 42. <u>06</u> | 43. <u>4</u> | 44.2 45. | 160 | 46 4 | 7 | 18. <u>P</u>) |
| Pro | wild To 5th | 49. 2 | 50 | 51. 7 52 | 06 | 53. <u>29</u> | 54. <u>4</u> | 55. <u> </u> | 160 | 67. <u> </u> | 8. <u> </u> | s9. <u>~</u> |
| | | | | | | | | 66. / 67. | | | | |
| L | , <i>Q</i> 7th | 71.2 | 72 | 73. 4 74 | 06 | 75.02 | 76. <u> </u> | 77 <u>2</u> 78. | 160 | 79 8 | 0 6 | 11.020 |
| الما | Been Ja 8th | 82. <u>2</u> | 83 | 84. 4 85 | . <u>0 6</u> | 86. <u>04</u> | 87. <u>5</u> | 88. 89. | 160 | 90. <u>/</u> 9 | 1. <u></u> s | 2.00 |
| ent | resil Sund | 93. 🕭 | 94 | 95. <u> </u> 96 | 06 | 97. <u>62</u> | - 98. 🗹 | 99/ 100. | 160 | 101. 🗘 10 | 2. 🖊 10 |)3. <u>Ø</u> |
| the los | 10th 1 | 0421 | 05. 21 | 06. 5 107 | 141 | ов. <u>49</u> | 109. 🖊 1 | 10.8/111. | 155 | - 112. <u>/</u> 11 | 3. <u> </u> | 4.00_ |
| | | | | | | | | | | | | 1 |

| | | | 10110 | | UPANT | INJURY | DATA | | | | |
|-------------------|-----------------------------|----------------|----------------------------------|---|--------------------|--------------------|---------|------------------|---|-------------------------------|---|
| | Source of Injury Data | Body Region | Type of Anatomic Structure | A.I.S 90 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupant Area Intrusion Number |
| est Tites | <u>2</u> | 2 | 5 | <u>14</u> | 04 | 4 | 8 | 155 | | _ | 07 |
| Ma (1) ly | -2 | 2 | 4 | 06 | 02 | _ | <u></u> | <u>/ 53</u> | | | <u>07</u> |
|) Andrews 13th | 2 | 4 | 4 | 22 | 02 | 3 | 2 | 151 | ′ _/ | _/ | <u> 4</u> |
| Way and | | _ | | | | _ | _ | | | _ | |
| 15th | | _ | _ | | | _ | _ | | | _ | |
| 16th | _ | | _ | | | | _ | | _ | _ | |
| 17th | _ | | | | | | _ | | _ | _ | |
| 18 1 h | _ | _ | _ | | | | _ | | _ | _ | |
| 19th | _ | | _ | | | | _ | | _ | _ | |
| 20th | | _ | _ | | | | | | _ | | |
| 21st | | _ | _ | | | | | | _ | | |
| 22nd | | _ | _ | | | | | | _ | | - |
| 23rd | | _ | _ | | | | | | _ | _ | |
| 24th | | _ | _ | | | | | | _ | _ | |
| 25th | | _ | _ | | | | | | _ | _ | |

National Accident Sampling System-Crashworthiness Data System: Occupant Injury Form

OCCUPANT INJURY CLASSIFICATION **Body Region** Specific Anatomic Level of Injury **Aspect** Structure (1)Head Specific injuries are Right (1)(2)Face assigned consecutive Left (2) (3) Neck Vessels, Nerves, Organs. two-digit numbers (3) Bilateral (4) (4) Central Thorax Bones, Joints are assigned beginning with 02. (5)Abdomen consecutive two digit (5) Anterior (7) Superior (8) Inferior (6)Spine Posterior numbers beginning with To the extent possible, Upper Extremity 02. (7)within the organizational Lower Extremity (8)framework of the AIS, 00 Inferior (9) Unspecified The exceptions to this rule is assigned to an injury (9) Unknown apply to: NFS as to severity or Whole region where only one injury is (02) Skin - Abrasion (04) Skin - Contusion (06) Skin - Laceration (08) Skin - Avulsion Type of Anatomic given in the dictionary for ten in Care Structure that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity. (1)Whole Area (08) Skin - Avulsion Vessels Nerves (2)(3)(10) Amputation Burn (4)Organs (includes Abbreviated Injury Scale (20)Muscles/ligaments) (30) Crush Skeletal (includes (5) (40)(50) Injury - NFS Degloving -(1) Minor Injury joints) (2) Moderate Injury Head - LOC (6)(90) Trauma, other than (3)Serious Injury Severe Injury (9)Skin mechanical (4) (5) Critical Injury Head - LOC (6) Maximum (untreatable) (02) Length of LOC Injured, unknown (04) Level severity (06) of (08) Consciousness (10) Concussion Spine Cervical : (02) (04) Thoracic (06) Lumbar

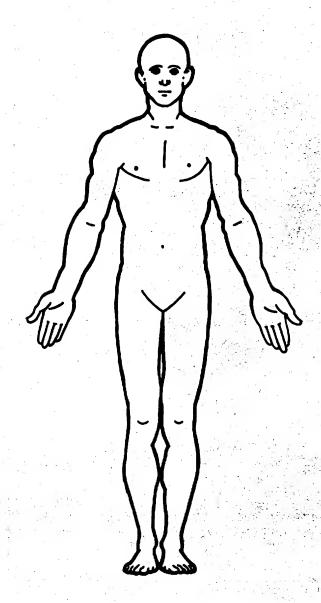
| SOURCE OF INJURY DATA | INJURY SOURCE CONFIDENCE LEVEL | DIRECT/INDIRECT INJURY | | | |
|--|--|--|--|--|--|
| OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room | (1) Certain (2) Probable (3) Possible (9) Unknown | (1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source | | | |
| (e.g., discharge summary) (3) Emergency room records only (including associated X-rays o other lab reports) | r | | | | |
| (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS | | | | | |
| (5) Lay coroner report(6) E.M.S. personnel(7) Interviewee(8) Other source (specify): | | | | | |
| (9) Police | | | | | |

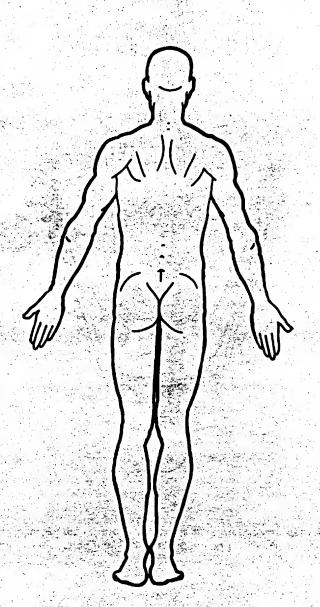
| | | | INJURY | JUUR | CES | |
|---------------|--|---|--|-----------|--|--|
| FRONT | | (102) | Right side hardware or | (183) | Air bag-passenger side and | (411) Wall mounted head rest |
| (001) | Windshield | | armrast | | object held | (used bahind wheel chair) |
| 002) | Mirror | (103) | Right A (A1/A2)-pillar | (184) | Air bag-passenger side and | |
| 2 | Sunvisor | (104) | | . (104) | object in mouth | (412) Other adaptive device |
| 004) | Steering whael rim | 1.7 | | 1105 | | (specify): |
| 005) | Steering whael hub/spoke | (105) | Other right piller (specify): | (185) | Air bag compartment | |
| | | 4400 | | | cover-passenger side | |
| 006) | Steering wheel (combination | (106) | and a second of the second of | (186) | Air bag compartment | EXTERIOR of OCCUPANT'S |
| | of codes 004 and 005) | (107) | | | cover-passenger side and | VEHICLE |
| 007) | Steering column, | (108) | Right side window sill | | eyewear | (451) Hood |
| | transmission selector lever, | (109) | Right side window glass | (187) | Air bag compartment | (452) Outside hardware (e.g., |
| 1 | other attachment | | including one or more of the | | cover-passenger side and | outside mirror, antenna) |
| (800 | Cellular telephone or CB | 7 - 5 - 5 | following: frame, window | | jewelry | (453) Other exterior surface or |
| 3 | radio | | sill, A (A1/A2)-pillar, B-pillar, | (188) | Air bag compartment | tires (specify): |
| 009) | Add on equipment (a.g., | | or roof side rail. | | cover-passenger side and | The second secon |
| . 1 | tapa deck, air conditioner) | (110) | A CONTRACT OF THE RESIDENCE | | object held | A Carrier and All Carrier |
| 010) | Laft instrument panel and | 4 8 | (specify): | /100 | a sample | |
| 60 | below | | Act and a supplemental state of the suppleme | (109) | Air bag compartment | (454) Unknown exterior objects |
| 0111 | | | The second control of the second control of | 14 | cover-passenger side and | |
| , , | Center instrument panel and | 18 | | | object in mouth | EXTERIOR OF OTHER MOTOR |
| 14 | below | INTER | | (190) | Other air bag (specify) | VEHICLE |
| | Right instrument panel and | (151) | Seat, back support | | 一 1700年 11 日本の一年 11 年前 | (501) Front bumpar |
| | below | (152) | Belt restraint | (195) | Other air bag compartment | (502) Hood edge |
| 013) | Glove compartment door | | webbing/buckle | | cover (specify) | (503) Other front of vehicle |
| 014) | Knee bolster | (153) | Belt restraint B-pillar or door | | | (specify): |
| 015) | Windshield including one or | | frame attachment point | - 4 | Professional Commencer of the State of the S | (appen //- |
| 7 - | more of the following: front | (154) | Other restraint system | ROOF | | (FO4) H1 |
| | header, A (A1/A2)-pillar, | (104) | component (specify): | | F | (504) Hood |
| | instrument panel, mirror, or | J. 12. 2 | component (specify). | | Front header | (505) Hood ornament |
| - 1 | | | | (202) | Rear header | (506) Windshield, roof rail, A-pill |
| | steering assembly (driver | | Head restraint system | (203) | Roof left side rail | (507) Side surface |
| | side only) | (160) | | (204) | Roof right side rail | (508) Side mirrors |
| 016) | Windshield including one or | £5 | HERRICA TO | (205) | Roof or convertible top | (509) Other side protrusions |
| | more of the following: front | (161) | Interior loose objects | in a stay | 보기에 가고 되고 뭐 없었다. | (specify): |
| | header, A (A1/A2)-pillar, | (162) | Child sefety seat (specify): | FLOOI | | |
| . 1 | instrument panel, or mirror | | | | Floor (including toe pan) | (510) Poer surface |
| , V. | (passenger side only) | (163) | Other interior object | | Floor or console mounted | (510) Rear surface |
| 017) | Windshield reinforced by | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | (202) | | (511) Undercarriage |
| | exterior object (specify) | | (specify): | | transmission lever, including | (512) Tires and wheels |
| . · . | extend object (specify) | | | | console | (513) Other exterior of other |
| 0101 | Other for a state of the state of | | | (253) | Parking brake handle | motor vehicle (specify): |
| 019) | Other front object (specify): | AIR B | AG | (254) | Foot controls including | 4 |
| | | (170) | Air bag-driver side | | parking brake | |
| | | (171) | Air bag-driver side and | - F | | (514) Unknown exterior of other |
| EFT S | SIDE | 75 | eyeweer | REAR | | motor vehicle |
| 051) | Left side interior surface, | (172) | Air bag-driver side and | (301) | Backlight (rear window) | The state of the s |
| | excluding hardware or | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | jewelry | (302) | | |
| | armrests | (173) | Air beg-driver side and | 13021 | | OTHER VEHICLE OR OBJECT IN |
| 052) | Left side hardware or | (173) | and the second of the second o | 1000 | door, etc. | THE ENVIRONMENT |
| JU2, | armrest | | object held | (303) | Other rear object (specify): | (551) Ground |
| 0E 21 | | (1/4) | Air bag-driver side and | 3 | | (598) Other vehicle or object |
| | Left A (A1/A2)-pillar | × * | object in mouth | | | (specify): |
| | · · · · · · · · · · · · · · · · · · · | (175) | Air bag compartment | ADAP | TIVE (ASSISTIVE) DRIVING | |
|)55) | Other left pillar (specify): | | cover-driver side | EQUIP | MENT | (599) Unknown vehicle or object |
| | | (176) | Air bag compartment | (401) | Hand controls for | |
| 056) | Left side window glass | | cover-driver side and | | braking/acceleration | NONCONTACT IN HIDY |
| | | | eyewear | 14021 | - | NONCONTACT INJURY |
| 058) | Left side window sill | (177) | Air bag compartment | 1702) | Steering control devices | (601) Fire in vehicle |
| | Left side window glass | ,,,,, | | | (attached to OEM steering | (602) Flying glass |
| | including one or more of the | /470 | cover-driver side and jewelry | | wheel) | (603) Other noncontect injury |
| | - | (178) | Air bag compartment | (403) | Steering knob attached to | source |
| | following: frame, window | | cover-driver side and object | | steering wheel | (specify): |
| | sill, A (A1/A2)-pillar, B-pillar, | • | held | (405) | Replacement steering wheel | (604) Air bag exhaust gases |
| | or roof sida rail. | (179) | Air bag compartment | | (i.e., reduced diameter) | (697) Injured, unknown source |
| 060) | Other left side object | | cover-driver side and object | (406) | Joy stick steering controls | 10077 injured, unknown source |
| | (specify): | | in mouth | | _ | |
| | | (180) | Air bag-passenger side | | Wheelchair tie-downs | - 1. P. 1 |
| | | | _ | (408) | Modification to seat belts, | |
| | | . (101) | Air beg-passenger side and | | (specify): | ** ** ** |
| IGHT | SIDE | | | | | |
| | | | eyewear | (409) | Additional or relocated | |
| RIGHT 101) | Right side interior surfeca, excluding hardware or | (182) | Air bag-passenger side and jewelry | (409) | Additional or relocated switches, (specify): | |

(410) Raised roof

armrests

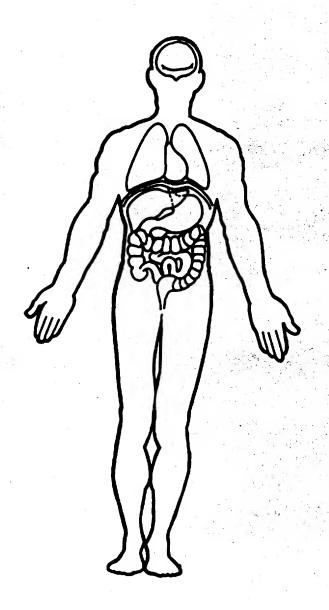
OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

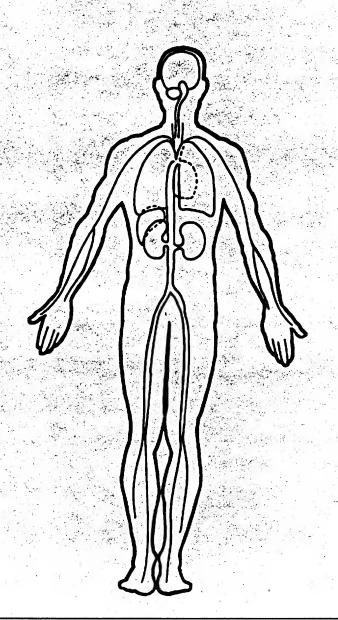




| | OFFICIAL INJURY DATA — SKELETAL INJURIES |
|--------------------------------|--|
| Restrained? | |
| No | Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), a Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are |
| Yes | unavailable.) |
| | |
| Blood Alcohol Level (mg/dl) | |
| BAL = | |
| | |
| Glasgow Coma Scale Score | |
| GCSS = | |
| GC35 = | |
| Halas of Diagra | |
| Units of Blood Given | |
| Units = | |
| * | AND MARIAN |
| Arterial Blood | |
| Gases | |
| pH = | |
| PO ₂ = | |
| PCO ₂ | |
| HCO ₃ | |
| | |
| | |
| ** | |
| • . | |
| | |

OFFICIAL INJURY DATA -INTERNAL INJURIES







U.S. Department of Transportation

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

| 1. Primary Sampling Unit Number | OCCUPANT'S SEATING |
|---|--|
| 2. Case Number - Stratum 95-08 | 10. Occupant's Seat Position Front Seat |
| 3. Vehicle Number | (11) Left side (12) Middle |
| 4. Occupant Number 0 4 | (13) Right side |
| OCCUPANT'S CHARACTERISTICS | (14) Other (specify):(15) On or in the lap of another occupant |
| 5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown | Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant |
| 6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown | Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): |
| 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 6 5 inches X 2.54 = centimeters | (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown |
| 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown | 11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console |
| (2) Passenger (9) Unknown | (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown |

| | EJE | ECTION/ENTRAPMENT | ye z |
|-----|---|---|----------|
| | Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown Ejection Area (0) No ejection | 15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown 16. Entrapment (O) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained | <u>9</u> |
| 14. | (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown | (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown | 2 |
| | | | |

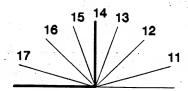
| | BELT SYSTEM FUNCTION | | | | |
|-----|---|---|--|--|--|
| 18. | Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown | 22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position | | | |
| | Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown | (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function | | | |
| 19. | Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt | (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative | | | |
| | (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat | (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown | | | |
| 20. | (specify): (99) Unknown if belt used Proper Use of Manual (Active) Belts (0) None used or not available | 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown | | | |
| | (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown | 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly | | | |
| 21. | Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate | with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident | | | |
| | (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): | (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): | | | |
| | (9) Unknown | (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown | | | |

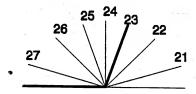
| POLICE REPORTED RESTRAINT USE | AIR BAG SYSTEM FUNCTION |
|---|---|
| 28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify): (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" | 30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed |
| Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used | (9) Unknown 32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: |
| | 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown |
| , ' | Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): |

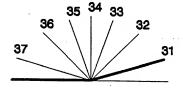
| FIRST SEAT FRONTAL AIR | BAG SYSTEM EVALUATION |
|---|---|
| 35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown | 40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown |
| 36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown | 41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (O) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed |
| 37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown 38. Air Bag Deployment Accident Event Sequence Number | (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? |
| (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown | (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut |
| 39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown | (04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown |

| | FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued | HEAD RESTRAINT AND SEAT EVALUATION |
|-----|--|--|
| - | EVALUATION continued | |
| 44. | Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): | 49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident |
| ÷ | (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): | (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) |
| 45. | (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): | (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): |
| 46. | (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): | (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): |
| 47 | (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown | (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track |
| 47. | Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed | Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions |
| | (8) Unknown if deployed (9) Unknown | (6) Seat at rear most track position (9) Unknown |
| | Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown | |

HEAD RESTRAINT AND SEAT EVALUATION continued 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99) Unknown 54. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify): (7) Combination of above (specify): (8) Other (specify): (9) Unknown







| | | CHILD SAFE | ETY SEAT | Page 8 |
|-----|--|------------|---|----------|
| | * | | LITOLAT | |
| 55. | Child Safety Seat Make/Model (000) No child safety seat | | 58. Child Safety Seat Harness Usage | 00 |
| | Applicable codes are found in your NASS Data Collection, Coding and Editing | | 59. Child Safety Seat Shield Usage | • |
| | (950) Built-in child safety seat | 1 | - Crima Safety Seat Shield Osage | 00 |
| | (997) Other make/model (specify): | . * | 60 Child Safaty Sant Takkan II | .) |
| | (998) Unknown make/model | - | 60. Child Safety Seat Tether Usage | 20 |
| | (999) Unknown if child safety seat used | | Note: Options below applicable to Variables OA58-OA60. | |
| 56. | Type of Child Safety Seat | - <u>0</u> | (00) No child safety seat | |
| | (0) No child safety seat | | Not Designed With Harness/Shield/Tether | |
| | (1) Infant seat (2) Toddler seat | | (01) After market harness/shield/tether | |
| | (3) Convertible seat | | added, not used | |
| | (4) Booster seat - with shield | | (02) After market harness/shield/tether use | d |
| | (5) Booster seat - with shield | | (03) Child safety seat used, but no after ma | arket |
| | (7) Other type child safety seat (specify) | . 1 | harness/shield/tether added (09) Unknown if harness/shield/tether | |
| | * | _ | added or used | |
| | (8) Unknown child safety seat type | ļ | | |
| | (9) Unknown if child safety seat used | | Designed With Harness/Shield/Tether | |
| | | ļ | (11) Harness/shield/tether not used | |
| 57. | Child Safety Seat Orientation | | (12) Harness/shield/tether used | 77 |
| ٠,. | (00) No child safety seat | -0-0 | (19) Unknown if harness/shield/tether used | Đ/m |
| ٠ | Designed for Rear Facing for This Age/W (01) Rear facing (02) Forward facing | leight | Unknown If Designed With Harness/Shield/7 (21) Harness/shield/tether not used (22) Harness/shield/tether used | |
| | (08) Other orientation (specify): | | (29) Unknown if harness/shield/tether used | 48 t *** |
| | (09) Unknown orientation | | (99) Unknown if child safety seat used | |
| | Designed For Forward Facing for This Ag (11) Rear facing | re/Weight | | |
| | (12) Forward facing | | · | |
| | (18) Other orientation (specify): | | | |
| | (19) Unknown orientation | | | |
| | Unknown Design or Orientation For This | | | |
| | Age/Weight, or Unknown Age/Weight | | | |
| | (21) Rear facing | | | |
| | (22) Forward facing | | | |
| | (28) Other orientation (specify): | | · | |
| | (29) Unknown orientation | | | |
| | (99) Unknown if child safety seat used | | • | |
| | | * | | |
| | | | | |
| | | | | |
| | | | | |
| | | 1 | | |

| INJURY CONSEQUENCES | |
|---|---|
| 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown | 63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): |
| 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown | 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown |
| STOP WO | ADV HEDE |

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

| INJURY CONSEQUENCES | TRAUMA DATA |
|---|---|
| Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown | 71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured |
| 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to | 72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured |
| this occupant's death (OO) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify): | (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported , HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured |
| 70. Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured | 74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used |
| | |



U.S. Department of Transportation **National Highway Traffic Safety** Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

| | | | | A.I.S 9 | 90 | | | • | Injury | | Occupant |
|-------|----------------|---|----------------------------------|-----------------------------------|------------------------|---------------------------|-------------------|------------------|-------------------------------|-------------------------------|-----------------------------|
| | | Source of Injury Body Data Region | Type of Anatomic Structure | Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Source Confidence Level | Direct/ Indirect Injury | Area Intrusion Number |
| Skal | V fy | 5. 2 6. / | 7. <u>5</u> | 8. <u>04</u> | 9. <u>0 4</u> | 10. <u>3</u> | 11 12 | e p 160 | 13. <u>/</u> | 14/ | 15. 0 |
| 4 | 2nd | 16. 2 17. 2 | 18.5 | 19. <u>0</u> 8 | 20.00 | 21. 2 | 22/ 23 | RF. 160 | 24. / | 25 | 26. <u>Ø</u> |
| 40 | Dolif 3rd | 27. 7 28. 5 | 29.5 | 30. <u>/Z</u> | 31. <u>& 7</u> | 32. Z | 33. /_ 34 | 160 | 235 l | 36. <u>/</u> : | 37. |
| FA | Odes 4th | 38. <u>—</u> 39. <u>—</u> | 40. 5 | 41. <u>/ Z</u> | 42. <u>00</u> | 43. <u>Z</u> | 44. <u>2</u> 45 | . <u>[60</u> | ′ 46. ∠ | 47./ | 48. |
| Cont. | Eulys 5yh | 49. <u>2</u> 50. <u>/</u> | 51. 9 | 52. <u>04</u> | 53. <u>0 2</u> | 54 | 55. <u>2</u> 56 | 160 | 57 | 58 | 59. |
| Hor h | eng 6th | 60. <u>2</u> 61/ | 62. 9 | 63. <u>0</u> 2- | 64. <u>0</u> 2 | 6 5. <u>/</u> | 66. <u>2</u> 67 | . 160 | 68. <u> </u> | 69. 🗘 | 70.00 |
| nt | Oppu | 71. <u>2</u> -72. <u>/</u> | 73. <u> </u> | 74. <u>0 6</u> | 75. <u>20</u> | 76. 3 | 77. <u>2</u> 78 | . 160 | 79(| 80 8 | 31. <u>40</u> |
| u (| Found 8th | W Z 83.Z | 84. 👤 | 85. <u>0</u> | 86. <u>0</u> 2 | −87. <u> </u> | 88. \geq 89 | .160 | 90 | 91. 📙 🤉 | 92. <u>Jd</u> |
| 464 | C) for | 93. <u>2</u> 94. <u>2</u> | 95.2 | 96. <u>& </u> _2 | 97. <u>0_</u> Z | −98. _/ | 9900 | 160 | 7 _{101.} <u> </u> | 02 10 | 03. 01 |
| Mr. | Dece 10th 1 | 04. 2 105. I | 706. <u>9</u> 1 | 07. <u>0</u> 2 | 108. <u>0</u> <u>7</u> | 1 09. <u>/</u> | 110. <u>Z</u> 111 | 160 | 112 1 | 13./ 1 | 1400 |
| | .7 | | Lyc. | | | | | | | | 0 11 |

HS Form 433B (1/96)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

| | | | | | occi | JPANT I | NJURY | DATA | | | | |
|------------|---------------------|-----------------------------|----------------|----------------------------------|---|--------------------|--------------------|----------|------------------|---|-------------------------------|---|
| | | Source of Injury Data | Body Region | Type of Anatomic Structure | A.I.S 90 Specific Anatomic Structure | Level of Injury | A.I.S. Severity | Aspect | Injury Source | Injury Source Confidence Level | Direct/ Indirect Injury | Occupant Area Intrusion Number |
| CR | Cay | W 1 | 2 | 9 | 06 | 02 | | 2 | 160 | | _/ | 02 |
| hemi Gf | 12th | 4- | 1 | 9 | 14 | 02 | | 2 | 160 | _/ | | <u>es</u> |
| Stall | 13th | 1 | <u></u> | 5 | 02 | 00 | 3 | 8 | 160 | | <u></u> | 03 |
| 9 pres | 14th | 2 | 4 | 4 | 14 | <u> </u> | 4 | 3 | <u>157</u> | | 2 | es_ |
| cont | 15th | 4 2 | 7 | <u>9</u> | 04 | <u>0</u> 2 | | 2 | | | 2 - | <u>~</u> |
| Abe | O Sta | 42 | 7 | 9 | <u>02</u> | <u>a_2</u> | / | 2 | <u> 151</u> | 2 | | <u> </u> |
| Ey (| P) make | 1 J | 8 | <u>5</u> | 16 | 10 | J | 7 | 1_5_1 | / | | |
| Alon | O For | 1 | 8 | 9_ | 02 | <u>0</u> 2 | ´ + | | <u> 151</u> | _/ | <u>Z</u> , | 08 |
| Cont | (L) (1) | 12 | 8 | 2 | 04 | 22 | / | _ | <u> </u> | _/ | <u>Z</u> | <u>~</u> |
| Da | pulir 20th he | 2 | 8 | 9 | 02- | 22 | 1 | 2 | 151 | | <u> </u> | ريح |
| | 21st | | | | | | | <u> </u> | | | _ | |
| | 22nd | | | - | | • | | - | | | | |
| | 23rd | | | | | | | | | | | |
| | 24th 25th | | | | | | | | | | <u>-</u> | |

(04)

Thoracic (06) Lumbar

OCCUPANT INJURY CLASSIFICATION

Body Region Specific Anatomic Level of Injury **Aspect** Structure Head (1)Specific injuries are (1)Right (2)Face assigned consecutive (2)Left (3) Neck Vessels, Nerves, Organs, two-digit numbers Bilateral (3)(4)Thorax Bones, Joints are assigned beginning with 02. (4)Central consecutive two digit (5)Abdomen (5)Anterior (6)Spine numbers beginning with To the extent possible, (6) **Posterior** (7)**Upper Extremity** 02. within the organizational (7)Superior (8) **Lower Extremity** framework of the AIS, 00 (8) Inferior (9) Unspecified The exceptions to this rule is assigned to an injury (9) Unknown NFS as to severity or apply to: **(O)** Whole region where only one injury is Type of Anatomic Whole Area given in the dictionary for (02) Skin - Abrasion Structure that anatomic structure. (04) Skin - Contusion 99 is assigned to any (06) Skin - Laceration (1) Whole Area injury NFS as to lesion or (2) Vessels (08) Skin - Avulsion severity. (10) Amputation (3)Nerves (4) Organs (includes (20) Burn **Abbreviated Injury Scale** Muscles/ligaments) (30) Crush (5) Skeletal (includes (40) Degloving Minor Injury ioints) (50) Injury - NFS (2) Moderate Injury (6)Head - LOC (90) Trauma, other than (3) Serious Injury (9) Skin mechanical (4)Severe Injury (5)Critical Injury Head - LOC (6)Maximum (02) Length of LOC (untreatable) (7)Injured, unknown (04) Level severity (06) of (08) Consciousness (10) Concussion <u>Spine</u> (02) Cervical

| SOURCE OF INJURY DATA | INJURY SOURCE | DIRECT/INDIRECT INJURY |
|--|---|---|
| | CONFIDENCE LEVEL | |
| OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic | (1) Certain(2) Probable(3) Possible(9) Unknown | (1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source |
| UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify): | | |

| | | | INJURY | 300h | ICLO | | |
|---|--|----------------------------------|--|---|--|-------------------------|--|
| FRONT | r · | (102) | Right side hardware or | (183) | Air bag-passenger side and | (411) | Wall mounted head rest |
| (001) | Windshield | | armrest | | object held | | (used behind wheel chair) |
| (002) | Mirror | (103) | Right A (A1/A2)-pillar | (184) | Air bag-passenger side and | (412) | Other adaptive device |
| (003) | Sunvisor | | Right B-pillar | | object in mouth | (412) | • |
| (004) | Steering wheel rim | (105) | Other right pillar (specify): | (185) | Air bag compartment | | (specify): |
| (005) | Steering wheel hub/spoke | | The state of the s | (100) | cover-passenger side | | |
| (006) | Steering wheel (combination | (106) | Right side window glass | (186) | _ | 5V | |
| | of codes 004 and 005) | | Right side window frame | (100) | Air bag compartment | | RIOR of OCCUPANT'S |
| (007) | Steering column, | | Right side window sill | | cover-passenger side and | VEHIC | LE |
| 10077 | - | | | | eyewear | (451) | Hood |
| | transmission selector lever, | (109) | Right side window glass | (187) | Air bag compartment | (452) | Outside hardware (e.g., |
| (000) | other attachment | | including one or more of the | | cover-passenger side and | | outside mirror, antenna) |
| (008) | Cellular telephone or CB | | following: frame, window | | jewelry | (453) | Other exterior surface or |
| | radio | | sill, A (A1/A2)-pillar, B-pillar, | (188) | Air bag compartment | | tires (specify): |
| (009) | Add on equipment (e.g., | | or roof side rail. | | cover-passenger side and | | |
| | tape deck, air conditioner) | (110) | Other right side object | | object held | | |
| (010) | Left instrument panel and | | (specify): | (189) | Air bag compartment | (454) | Unknown exterior objects |
| | below | | | | cover-passenger side and | (454) | Official exterior objects |
| (011) | Center instrument panel and | | | | object in mouth | EVEE | |
| | below | INTER | IOB | (190) | | | IOR OF OTHER MOTOR |
| (012) | Right instrument panel and | | Seat, back support | (130) | Other air bag (specify) | VEHIC | |
| (0.2, | below | | | | | | Front bumper |
| (013) | Glove compartment door | | Belt restraint webbing/buckle | (195) | Other air bag compartment | (502) | Hood edge |
| (014) | · · | (153) | Belt restraint B-pillar or door | | cover (specify) | (503) | Other front of vehicle |
| | | | frame attachment point | | | | (specify): |
| (015) | Windshield including one or | (154) | Other restraint system | | | | |
| | more of the following: front | | component (specify): | ROOF | | (504) | Hood |
| | header, A (A1/A2)-pillar, | | | (201) | Front header | (505) | Hood ornament |
| | instrument panel, mirror, or | (155) | Head restraint system | (202) | Rear header | | Windshield, roof rail, A-pilla |
| | steering assembly (driver | (160) | Other occupants (specify): | (203) | Roof left side rail | | Side surface |
| | side only) | | • | | Roof right side rail | | Side mirrors |
| (016) | Windshield including one or | (161) | Interior loose objects | | Roof or convertible top | | |
| | more of the following: front | | Child safety seat (specify): | 12007 | noor or convertible top | (509) | Other side protrusions |
| | header, A (A1/A2)-pillar, | ,, | oa sarcty scat (specify). | FI 001 | _ | | (specify): |
| | instrument panel, or mirror | (162) | Other interior abis as | FLOOI | | | |
| | | (103) | Other interior object | | Floor (including toe pan) | (510) | Rear surface |
| (017) | (passenger side only) | | (specify): | (252) | Floor or console mounted | (511) | Undercarriage |
| (017) | Windshield reinforced by | | | | transmission lever, including | (512) | Tires and wheels |
| | exterior object (specify) | | | | console | (513) | Other exterior of other motor |
| | | AIR B | AG | (253) | Parking brake handle | | vehicle (specify): |
| (019) | Other front object (specify): | (170) | Air bag-driver side | (254) | Foot controls including | | |
| | | (171) | Air bag-driver side and | | parking brake | (514) | Unknown exterior of other |
| | | | eyewear | | | , | motor vehicle |
| LEFT S | SIDE | (172) | Air bag-driver side and | REAR | | | motor venicle |
| (051) | Left side interior surface, | | jewelry | | Backlight (rear window) | OTHE | NEW 01 F 02 00 1505 11 |
| | excluding hardware or | (173) | Air bag-driver side and object | | | | R VEHICLE OR OBJECT IN |
| | armrests | (.,, | held | (302) | Backlight storage rack, | | NVIRONMENT |
| (052) | Left side hardware or | (174) | | | door, etc. | | Ground |
| (002) | armrest | (174) | Air bag-driver side and object | (303) | Other rear object (specify): | (598) | Other vehicle or object |
| (OE 2) | | | in mouth | | | | (specify): |
| | Left A (A1/A2)-pillar | (175) | Air bag compartment | | | | |
| (054) | • | | cover-driver side | ADAP | TIVE (ASSISTIVE) DRIVING | (599) | Unknown vehicle or object |
| (055) | Other left pillar (specify): | (176) | Air bag compartment | | MENT | | 22,000 |
| | | | cover-driver side and | (401) | Hand controls for | NONC | ONTACT INJURY |
| | | | | • | braking/acceleration | | |
| | Left side window glass | | eyewear | | | | Fire in vehicle |
| (056) | Left side window glass Left side window frame | (177) | • | (402) | | | Chrise ele |
| (056) (057) | _ | (177) | Air bag compartment | (402) | Steering control devices | (602) | Flying glass |
| (056) (057) (058) | Left side window frame Left side window sill | | Air bag compartment cover-driver side and jewelry | (402) | Steering control devices (attached to OEM steering | (602) | Other noncontact injury |
| (056) (057) (058) | Left side window frame Left side window sill Left side window glass | | Air bag compartment cover-driver side and jewelry Air bag compartment | | Steering control devices (attached to OEM steering wheel) | (602) | Other noncontact injury source |
| (056) (057) (058) | Left side window frame Left side window sill Left side window glass including one or more of the | | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object | | Steering control devices (attached to OEM steering wheel) Steering knob attached to | (602) (603) | Other noncontact injury source (specify): |
| (056) (057) (058) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window | (178) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held | (403) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel | (602) (603) | Other noncontact injury source |
| (056) (057) (058) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, | (178) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment | (403) | Steering control devices (attached to OEM steering wheel) Steering knob attached to | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. | (178) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object | (403) (405) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) | (602) (603) (604) | Other noncontact injury source (specify): |
| (056) (057) (058) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other left side object | (178) (179) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object in mouth | (403) (405) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. | (178) (179) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object | (403) (405) (406) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other left side object | (178) (179) (180) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object in mouth | (403) (405) (406) (407) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other left side object | (178) (179) (180) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object in mouth Air bag-passenger side | (403) (405) (406) (407) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other left side object (specify): | (178) (179) (180) (181) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object in mouth Air bag-passenger side Air bag-passenger side and eyewear | (403) (405) (406) (407) (408) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, (specify): | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) (060) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other left side object (specify): | (178) (179) (180) (181) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object in mouth Air bag-passenger side Air bag-passenger side and eyewear Air bag-passenger side and | (403) (405) (406) (407) (408) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, (specify): Additional or relocated | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |
| (056) (057) (058) (059) (060) | Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other left side object (specify): | (178) (179) (180) (181) | Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object in mouth Air bag-passenger side Air bag-passenger side and eyewear | (403) (405) (406) (407) (408) | Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, (specify): | (602) (603) (604) | Other noncontact injury source (specify): Air bag exhaust gases |

OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Restrained?

___ Yes

Blood Alcohol Level (mg/dl)

BAL = ____

Glasgow Coma Scale Score

GCSS = ____

Units of Blood Given

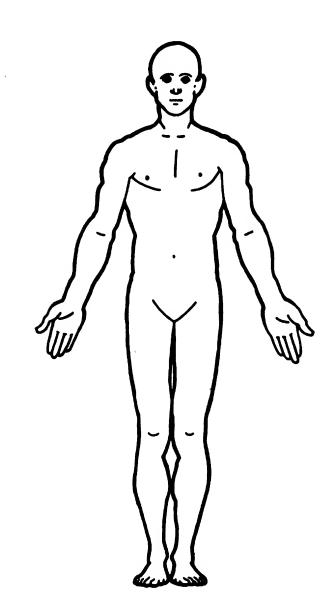
Units =

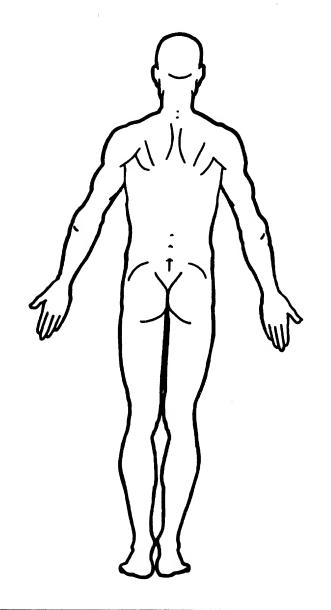
Arterial Blood Gases

PO₂ = ____

PCO₂ ____

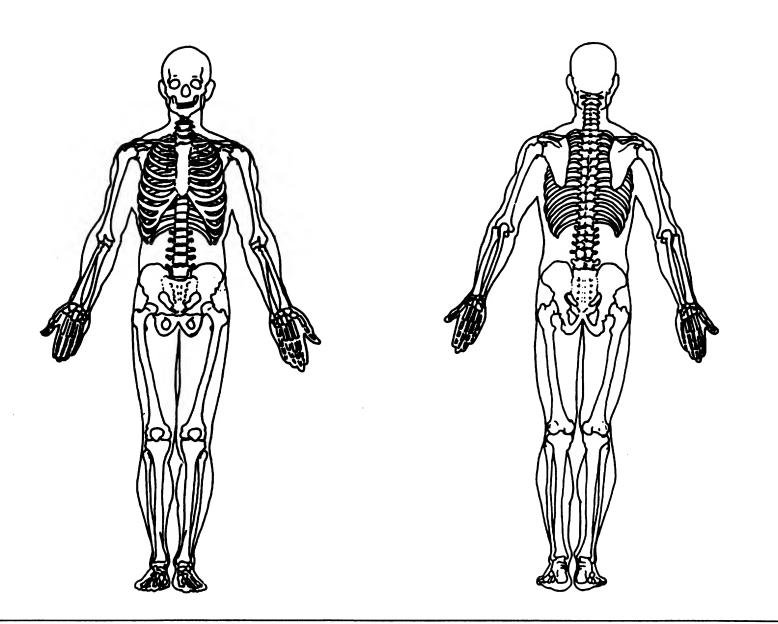
HCO₃



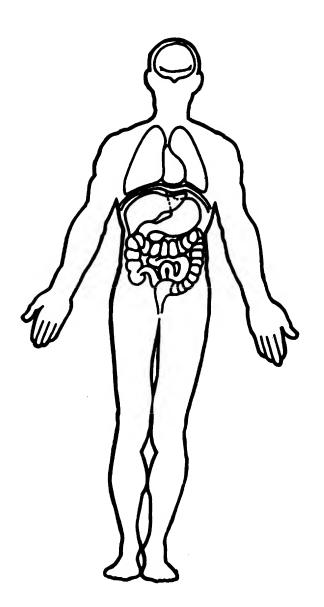


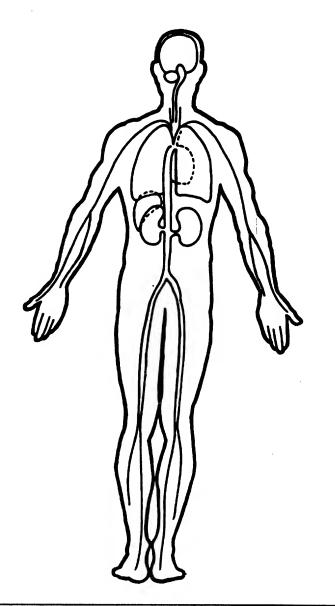
OFFICIAL INJURY DATA — SKELETAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





TRAFFIC CRASH REPORT LOCAL REPORT NO REPORTING AGENCY N.C.I.C. Ø OH-2 (B.OH-3 ODHS USE ONLY - DO NOT MARK ABOVE NO. OF VEH PEDESTRIANS INVOLVED REPORT TAT STATION CRASH SEVERITY (CHECK MOST SEVERE) COMBINED VEH/PROP LOSS TAKEN AT SCENE OVER \$150 HIT SKIP SOLVED FATAL MINJURY PROPERTY DAMAGE ONLY UNDER \$150 UNSOLVED DAY IME: MILIT IN CITY VILLAGE TWE OF ME: MILITARY 2023 CRASH OCCURRED ON MITHIN THE INTERSECTION OF IF NOT IN INTERSECTION ERSECTIMO STREET, MILEPOST, HOUSE NO. CULTODE MILES: 420 FEET LOG-12-15 DE L LOC NO. OF OCCUPANTS PARKED DRIVERLESS NON-CONTACT INSURANCE C Ø OR AGENT DRIVER-PEDESTRIAN NAME (LAST, FIRST, MI) ADDRESS (NO., STREET, CITY, STATE, ZIP CODE) PHONE NO. BIRTH DATE AGE SEX SOCIAL SECURITY NO. DRIVER'S LICENSE NO. STATE OCCUPATION OWNER (IF SAME AS DRIVER WRITE SAME) ADDRESS DRIVER-PEDESTRIAN-VEHICLE SECTION PHONE VEH YR MAKE MODEL COLOR STYLE STATE LICENSE PLATE NO. TOWING SERVICE VEH/PED DIF CIRCLE DAMAGE SEVERITY FROM DALAGESGAS 9 TOP AREAS NON-FUNCTIONAL NONE MODERATE DRIVEN AWAY 🛛 NO FIRE 10 UNDERCAR FUNCTIONAL LIGHT HEAVY 11 LOAD REMAINED AT SCENE FIRE DUE TO CRAS 12 TRAILER DISABLING TOWED OTHER FIRE OPERATING INSURANCE CO. 2 OCCUPANTS 4 PARKED DRIVERLESS HIT & RUN NON-CONTACT X IAN NAME (LAST EIRST MI) ADDRESS (NO BIRTHDATE AGE SEX SOCIAL SECURITY NO STATE DRIVER'S LICENSE NO. OCCUPATION 41 OWNER (IF SAME AS DRIVER, WRITE SAME) ADDRESS PHONE SAME VEH YR MAKE MODEL COLOR STYLE STATE LICENSE PLATE NO TOWING SERV VEH PED DIR 19 94 DODGE NTREPID RED 4m FROM S TO CIRCLE DAMAGE SEVERITY VEHICLE DISPOSITION 9 TOP NON-FUNCTIONAL AREAS NONE MODERATE DRIVEN AWAY NO FIRE 10 UNDERCAR FUNCTIONAL 11 LOAD LIGHT SHEAVY REMAINED AT SCENE FIRE DUE TO CRAS 12 TRAILER DISABLING TOWED. OTHER FIRE FROM С UNIT POSITION INJURIES :3 ADDRESS 2 SEX M FROM UNIT NO. D URTHDATE 1 FATAL 2 SERIOUS VISIBLE AGE 1.3 2 SERIOUS VISIBLE
3 MINOR VISIBLE
4 NO VISIBLE INJURY
5 NOT INJURED OCCUPANT SECTION 2 SEX 17 FROM UNIT NO. E IRTHDATE CONDITION AGE 11 2 SEX 1 APPARENTLY NORMAL 2 SICK FROM - (8 5 mm AGE FATIGUED
APPARENTLY ASLEEP
PHYSICAL DEFECT
OTHER CONDITION NO. 7 P-PEDESTRIAN SEX RESTRAINTS UNKNOWN 8 INJURED TAKEN TO C 8 Y SEE ALCOHOL D F Ε TESTED TESTED 1 NOT USED
2 NONE AVAILASLE
3 LAP BELT USED
4 LAP/SHOULDER BELT USED
5 SHOULDER BELT USED
6 CHILD SAFETY SEAT
7 AIR BAG USED
8 USE NOT REPORTED INJURED TAKEN TO Α 8 c 8 Y YES NO TES n Ε F OFFENSE CHARGED AND DESCRIPTION 1 NO ALCOHOL DETECTED
2 HBD ABILITY IMPAIRED
3 HBD ABILITY NOT IMPAIRED
4 HBD ABILITY UNKNOWN Ω O.R.C. CITY ORD: 12 COUNTS) Α POLICE ACTION HICULA & ASSAULT OFFENSE CHARGED AND DESCRIPTION O.R.C.: В EJECTION DRUGS TESTED TESTED B RECEIVED DISPATCH DISPATCHED ARRIVED CLEARED O YES \square YES OTHER TIME TOTAL MINUTES 2235 2026 900 E NO 1 NOT EJECTED
2 PARTIAL
3 TOTAL
4 TRAPPED INSIDE VEHICLE □ NO DATE REPORT FILED PHOTOS OFFICER'S NAME BADGE NO. CHECKED BY ⊠ _{YES} NO DRUGS DETECTED USING PRESCRIBED DRUG USING ILLICIT DRUG 16

| LOCAL REPORT NO | DESCRIBE WHAT HA REFER TO UNITS BY NUMBER | PPENED UNIT # | 1 WAS | 5/B ON | The state of the s |
|--|--|---|--|---|--|
| WENT LET | T OF G | UNITER COLL | IDING WI | TH UNITE | Z HEAD ON. |
| | | | | • | |
| WEATHER 1 NO ADVERSE 4 FOG WEATHER 5 HIGH WIND 2 RAIN 6 OTHER | L HARM | FIRST FUL EVENT AV IN TRANSPORT | | | SHOW NORTH |
| 2 RAIN 3 SNOW ROAD CONDITIONS 1 DRY 2 WET 3 SNOW 4 ICE 2 WET 5 DIRT/SAND 6 OTHER | 1 HEAD 2 REAR 3 BACH 4 SIDE: 5 SIDE: 6 ANG! | ON -END SWIPE MEETING SWIPE PASSING -E IV IN TRANSPORT COLLISION) | | | WITH ARROW |
| LIGHT 1 DAYLIGHT 4 DARK NO LIG 2 DAWN 5 DARK-LIGHTI 3 DUSK 6 OTHER | HTS 4 PEDE 9 ANIM 10 TRAII 11 PEDA 12 OTHE 13 FIXE 14 OTHE (NO | LCYCLE R NON-M V OBJECT R OBJECT N-COLLISION) | | 3 | |
| 1 STRAIGHT LEVEL 3 CURVE LE 2 STRAIGHT GRADE 4 CURVE GO | TRADE 16 OVER 17 OTHE | FROM OR IN VEH ITURNING IR NON-COLLISION CATION RECTION | | | |
| 1 ON ROADWAY 3 OFF RIGHT 5 2 OFF LEFT SIDE 4 ON OPPOSITE OF A DIVID HIGHWAY SPECIAL AREA 1 ROAD CONSTRUCTION MAINTENANCE AREA 2 SCHOOL ZONE | IG LANE SED SED SED SED SED SED SED SED SED SE | RSECTION-RELATED EWAY ACCESS IOAD CROSSING GE-PASSING OVER GE-PASSING UNDER INTERSECTION ATE PROPERTY | ^ | | |
| TYPE OF | 3 . 2 3 | PRE-CRASH ACTIONS | 15 1 | CONTRIBUTING FACT | TOR 13 / |
| 2 COMPACT 17 C 3 MID SIZE 18 P 4 FULL SIZE TRUCK 19 P 5 PICKUP 20 F 6 PANEL/VAN 21 A 7 STRAIGHT TRUCK AND TRAILER 22 T 9 TRUCK TRACTOR 23 M 10 TRACTOR 2 SEMITRAILER 25 F 11 TRACTOR 2 C 10 TRACTOR 2 C 11 TRACTOR 2 C 12 C 13 MOTOROUSE 28 C | OTOR HOME | DRIVER ACTIONS 1 GOING STRAIGHT 2 TURNING RIGHT 3 TURNING LEFT 4 TURNING 6 STOPPED TO TURN 7 STOPPED IN TRAFFIC 8 PARKING/UNPARKING 9 PARKED 10 BACKING 11 PASSING 12 CHANGING LANES 13 MERGING/EXITING RAMP 14 OUT OF CONTROL 15 SWERVING 16 DRIVERLESS VEH | PEDESTRIAN ACTIONS 18 CROSSING IN X-WALK 19 CROSSING OTHER THAN X-WALK 20 WALKING IN ROAD (WITH TRAFFIC) 21 WALKING IN ROAD (AGAINST TRAFFIC) 22 PLAYING IN ROAD 23 WORKING ON ROAD 24 ENTERING OR LEAVING VEHICLE 25 PUSHING/WORKING ON VEH IN ROAD 26 OTHER IN ROAD 27 ON SIDEWALK OR SHOULDER | DRIVER ERROR 1 NONE 2 FAILURE TO YIELD 3 UNSAFE SPEED 4 FOLLOWING TOO CLOSELY OR ACDA 5 RAN RED LIGHT 6 RAN STOP OR YIELD SIGN 7 IMPROPER TURN 8 IMPROPER PASSING 9 IMPROPER LANE CHANGE 10 IMPROPER BACKING 11 IMPROPER START FROM PARKED POSITION 12 STOPPED OR PARKED ILLEGALLY | NON-DRIVER FACTOR 18 VEHICLE DEFECTS 19 LOAD SHIFTING FALLING, SPILLING 20 PAVEMENT DEFECT 21 SHOULDER DEFECT 22 DEBRIS ON ROAD 23 DOWNED TRAFFIC SIGN/DEVICE 24 VISION OBSTRUCTION 25 ANIMAL ACTIONS VEHICLE DEFECTS CODE IF CONTRYBUTING / |
| 12 MC UP TO 350CC 30 A 13 MC351CC TO 750CC 31 B 14 MC OVER 751CC 32 A 15 MOTORIZED BICYCLE | NIMAL W/BUGGY ICYCLE LL OTHERS EDESTRIAN | TRAFFIC CONTROL /Z /Z DRIVER | FIXED A / B / STRUCK / I NONE | 13 LEFT OF CENTER 14 FAILURE TO CONTROL 15 DRIVER INATTENTION 16 DROVE OFF ROAD REASON UNKNOWN 17 OTHER DRIVER ERROR | PRIMARY A B |
| | MC HELMET USE | 1 NO CONTROLS 2 STOP SIGN 3 YIELD SIGN 4 TRAFFIC SIGNAL | 2 UTILITY POLE 3 TRAFFIC SIGN 4 BRIDGE/CULVERT | TRUCK A B | SECOND- |
| A 40 45 A B 40 45 B | T DRIVER PASS | 4 TRAFFIC SIGNAL 5 TRAFFIC FLASHERS 6 SCHOOL ZONE 7 RAILROAD CROSSBUCKS 8 RAILROAD FLASHERS 9 RAILROAD GATES 10 CONSTR BARRICADES 11 POLICE OFFICER 12 PAVEMENT MARKINGS | 5 GUARD RAIL _6 FENCE 7 TREE 8 SHRUBBERY 9 CURB 10 DITCH 11 EMBANKMENT 12 BUILDING 13 MAIL BOX | 1 EMPTY 2 PERISHABLE GOODS 3 GENERAL FREIGHT 4 METAL/HEAVY / MACHINERY 5 HAZARBOUS GAS 6 HAZARBOUS LIQUID 7 HAZARBOUS SOLID 8 RADIOACTIVE MATERIAL | 1 TURN SIGNALS 2 HEAD LAMPS 3 TAIL LAMPS 4 BRAKES 5 STÉRRING 6 TIRE BLOWOUT 7 WORN OR SLICK TIRES 8 TRAILER EDUIPMENT DEFECTIVE DUE |
| CLEAR ENOUGH TO BE 3 | NO HELMET FULL COVERAGE FULL FACIAL COVER OTHER TYPE HELMET | 13 OTHER PEDESTRIAN 14 NO CONTROLS 15 CROSSWALK LINES 16 WALK/DON'T WALK DEVICE | 14 CONSTRUCTION BARRICADE 15 FIRE.HYDRANT 16 OTHER OBJECT | TRUCK A B AXVES | 9 MOTOR TROUBLE 10 DISABLED FROM PRIOR ACCIDENT 11 OTHER DEFECTS |

| ADMINISTRATIVE | TOD 2023 TOA 2026 MICLIDENT TOC 2235 SUPPLEMENT OHIO UNIFORM | I INCIDENT REPORT | A C C C C C C C C C C C C C C C C C C C | A | G ARREST-JUVENILL H |
|----------------|--|--|--|--|---|
| AD | REPORT DAYE/TIME INCID: MONTH DAY YEAR TIME MONTH C | ENT OCCURRED FROM DAY YEAR TIM | E MONTH | INCIDENT OCCURR | BY: ED:TO EAR THE |
| | INCIDENT LOCATION (Street, Apt., City, State, Zip) | 95 2023 | 3 - | HATE/BIAS EXPL | AINI: |
| - | OFFENSE 430 FT N OF | OFFENSE CODE | A/C F/M & DEGREE | DYEN ANTE | |
| | AGBRAVATED VEHICULAR ASSAUS | 1. | C F4 | | Enter up to three for each offe B- BUYING/REC. |
| | 2. <u>homicide</u> | 3. | | 1 2 3 | C- CULTIVATING/JUFG_/PUB D- DISTRIBUTING/SELLING E- EXPLOITING CHILDREN |
| | 4. | 4. | | 1 2 3 | O- OPER/PROMOTING/ASSE P- POSSESSING /CONCEALIN T- TRANSP/TRANSMITTING U- USING/CONSUMING |
| | 5. | 5. | | 1 2 3 | |
| | LOCATION OF OFFENSE (Enter up to two) |] | | 1 2 3 LARCENY.T | YPE |
| OFFENSE | 1. 47 2. RESIDENTIAL STRUCTURE 01 SINGLE FAMILY HOME 02 MULTIPLE DWELLING 03 RESIDENTIAL FACILITY 04 OTHER RESIDENTIAL 05 GARAGE/SHED 16 FINANCIAL INSTITUTION 17 BARBER/BEAUTY SHOP PUBLIC ACCESS BLDGS. 06 TRANSIT FACILITY 07 GOVERNMENT OFFICE 08 SCHOOL 09 COLLEGE 10 CHURCH 11 HOSPITAL 12 JAIL/PRISON 13 PARKING GARAGE 14 OTHER PUBLIC ACCESS BUILDINGS COMMERCIAL LOCATIONS 15 AUTO SHOP 16 FINANCIAL INSTITUTION 17 BARBER/BEAUTY SHOP 18 HOTEL/MOTEL 19 DRY CLEANERS/LAUNDRY 20 PROFESSIONAL OFFICE 21 DOCTOR'S OFFICE 22 OTHER BUSINESS OFFICE 23 AMUSEMENT CENTER 24 RENTAL STORAGE FACILITY 25 OTHER COMMERCIAL SERVICE LOC. | RETAIL 26 BAR 27 BUY/SELL/TRADE SHO 28 RESTAURANT 29 GAS STATION 30 AUTO SALES LOT 31 JEWELRY STORE 32 CLOTHING STORE 33 DRUGSTORE 34 LIQUOR STORE 35 SHOPPING MALL 36 SPORTING GOODS 37 GROCERY/SUPERMARKE 38 VARIETY/CONVENIENCI 39 DEPARTMENT STORE | OUTSIDE 43 YARD 44 CONSTRUCTION 45 LAKE/WATERW 46 FIELD/WOODS 47 STREET 48 PARKING LOT 49 PARK/PLAYGRO 50 CEMETERY 51 PUBLIC TRANSI | 7PLANT 23C SHC G | SE SNATCHING PUFTING FT FROM BUILDING FT FROM COIN-OP MACH. FT FROM MOTOR VEH. FOR VEH PARTS/ACCES. FT OF MOTOR VEHICLE |
| | METHOD OF ENTRY → MOTOR VEHICLE TO 1 ☐ FORCE 01 ☐ MOTOR RUNNING/KEYS IN CAR OF ☐ HOT N | | AETHOD OF ENTRY - B EXIT EN | | ENTRY EXIT |
| | 2 NO FORCE 02 UNLOCKED 07 SLIM NO. PREMISES 03 DUPLICATE KEY USED 08 TUMB ENTERED 04 WINDOW BROKEN 09 COLU 05 TOWED 10 IGNIT | JIM/COAT HANGER 1 BAS BLERS REMOVED 2 15° IMN PEELED 3 2N | SEMENT 1 2 1 2 1 2 1 1 1 1 | □ DOOR □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | 1 |
| | METHODS OF OPERATION 89- WHILE OPERATING MC | DIDE VEH, RECI | | | RIOUS HAL |
| | EMPLOYER NAME AND ADDRESS (Street, Apt., City, State, Zip) AGE D.O.B. OCCUPATION HOMEMAKER NAME (Last, First, Middle) RACE B D D D D D SS | 5-6 | WGT 145 RESIDENT 1⊠ RESI | PHONE PHONE HAIR SD Y DENT 3 MIUTARY | EYES BLU S OTHER |
| VICTIM | VICTIN I ⊠INDIVIDUAL F ☐ FINANCIAL INSTITUTION P | POLICE OFFICER (IN THE LINE | STATUS 2 TOU OF DUTY S [] | rist 4 student society/public 0 | 6 □ UNKNOWN] OTHER |
| | VICTIN DY IF INJURED, DESCRIBE INJURED? ON INJURIES: | D RELIGIOUS ORGANIZATION B MEDIC RUN | | UNKNOWN | |
| | AGG: ASLT/ HOMICIDE CIRCUM My signature verifies that the information | VICTIM LINKED | TO OFFENDER NO(S) | MCTIM LINKED TO OF 2903.0 | |
| | on this report is accurate and true REPORTING OFFICER | | | DATE | -95 |
| | APPROVING OFFICER | | O 1 | BADGENO D | 95 |
| | FOLLOW-UP7 If yes, follow-up assignment: | | DW | | - 95 |
| | ADOITIONAL ELYCTIM/WITNESS I PROPERTY I STATEME SUPPLEMENTS EL SUSPECT/ARRESTEE EL NARRATIVE DE OTHER | NTS FORM RECEIVED BY: | | PECIAL COPIES | 60C/5-8001 60C/5 11/30/92 |

| | VICTIM/WITNESS SUPPLEMENT | |
|----------|--|-----------------------------|
| | OFFENSE ALC. VEH. ASSAVO INCIDENT. DATE | |
| | Z_VICTIMS 7 MARC(Last, First, Middle | /3 |
| 1 | And the first product of the second of the s | PHONE |
| 1 | EMPLOYER NAME AND ADDRESS (Street, Apt., City, State, Zip) | PHONE |
| 1 | DOB SANDER SI SANDER MAR DE MA | BAO Fres BAO |
| E | OCCUPATION SSN , RESIDENT AS DESCRIPTION OF THE STREET OF | # ITARY STOTION |
| VICTIM | VICTIN I. Q INDIVIDUAL F. F. FINANCIAL INSTITUTION P. P. POLICE OFFICER (IN THE LINE OF DUTY. S. □SOCETY/PUBL | IC CONTRACTOR |
| | NCTH DY IF NURED, IN DESCRIBE INJURIES: SEE NEDIC REPORT | |
| | | TIM LINKED TO OFFENSE (NO)S |
| | FOR DEPT. USE ONLY | |
| L | My signature verifies that the information in this report is accurate and true | -95 |
| | NO | |
| | ADDRESS (Street, Apt., City, State, Zip) | PHONE |
| | EMPLOYER NAME AND ADDRESS (Street, Apt., City, State, Zip) | PHONE |
| | AGE/ D.O.B. RACE B A HGT WGT HAIR | EYES |
| VICTIM | OCCUPATION SSN RESIDENT 1 RESIDENT 3 M STATUS 2 TOURIST 4 ST | LITARY 5 OTHER |
| Ž | VICTIN I I INDIVIDUAL F I FINANCIAL INSTITUTION P I POLICE OFFICER (IN THE LINE OF DUTY S I SOCIETY/PUBLIC TYPE B BUSINESS G GOVERNMENT R I RELIGIOUS ORGANIZATION P I INMINIONIN | O C OTHER |
| | INJURED? N DESCRIBE INJURIES: | - |
| | HOMICIDE CIR. FOR DEPT. VICT. OFF. VICTIM LINKED TO OFFENDER NO(S) VICT. OFF. RELAT | TIM LINKED TO OFFENSE (NO)S |
| | USE ONLY | * |
| | My signature verifies that the information In this report is accurate and true Date | |
| | NO. NAME (Last, First, Middle) AGE/ D.O.B. | SSN . |
| ITNESS | ADDRESS (Street, Apt., City, State, Zip) | PHONE |
| ¥ | EMPLOYER NAME AND ADDRESS (Street, Apt., City, State, Zip) | PHONE |
| \vdash | STATEMENTS OBTAINED DY DN TYPE WRITTEN ORAL TAPED OTHER NO. NAME (Last, First, Middle) | |
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1995

To Whom It May Concern;

For further information concerning report you may contact the

Records Section

4

Dear-

The National Highway Traffic Safety Administration (NHTSA) under the authority of the U.S. Department of Transportation is conducting a research investigation into a two vehicle crash which occurred on the participants in the crash, and her thirteen year old some were transported from the scene and admitted to your medical facility. This investigation is particularly important to the NHTSA due to the presence of front seat air bags which deployed during the crash.

capacity we need to obtain copies of the medical records for the medical records are requested:

which identify injuries they suffered in the crash. The following records are requested:

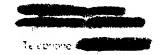
- Discharge Summary
- Emergency Room Record
- Surgical Records
- Pre-operative Radiology Reports
 - Medical Consultation Reports
 - Any additional record(s) which identify patient injury (e.g., pertinent nurses notes, etc.)

Enclosed are two signed Medical Release Forms from Enclosed are required by your medical facility. You should be aware that NHTSA's interest in this crash resides with the effectiveness of applicable Federal Motor Vehicle Safety Standards and not with passenger identification. Federal law requires the exclusion of personal identifiers from investigative reports to protect the privacy of the crash victim.

Thank you for your cooperation and support. It was a pleasure speaking with one of your colleagues, on

The copies can be mailed to If you have any questions, please call me at "Attention: search". PRENATAL □ EKG JFS L&D DS EEG Sincerel PSYCH H&P ER OPE NATOTES ☐ LABS ☐ M/D NOTES □ X-RAY Enclosures-





Dear records requester:

We have received your request for medical records maintained by and, as discussed below, have referred your request to an independent company, for immediate processing on our premises.

we maintain medical records during a patient's stay so we can provide quality patient care. The primary reason medical records are maintained following discharge is to facilitate the continued medical care of the patient. The records of a patient may be inspected and copied by the patient (in most cases), his physician, and any other person authorized by the patient or by law. Because the expense of copying records diverts time and money from our primary mission of providing health care, we do not provide the service of copying the records you requested, and we do not maintain copy facilities for the public use. To avoid delay and inconvenience to you, however, we have referred your request to our in-house correspondence service.

Sincerely,

Medical Records

A WORD ABOUT

professionals that serves a number of hospitals in this area and across the United States. It was conceived as a for-profit company that would help hospitals devote more money to the delivery of health care while providing better service to records requesters. As its contribution to this hospital's delivery of health care, while shares with this hospital a portion of all fees collected for services provided to requesters like you and also provides, without charge, a number of valuable copying and mailing services for this hospital. It is the only medical records copying service recommended by

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from father

ME RECORDS

Witness

EMERGENCY AND TRAUMA CENTER MEDICAL RECORD

NAME: MR#: ATTENDING: ACCOUNT #:

ADM DATE:
PRO DATE:
DIS DATE:

95 DOB: SEX:

DOB: 81 SEX: UNIT: 81

VIS TYPE:

ROOM:4

CHIEF COMPLAINT:

Motor vehicle accident.

HISTORY: This is a 13-year-old, handicapped white male who was a passenger in a motor vehicle accident tonight. He has severe pain in his face and neck. Other members in the automobile accident have been injured very seriously. He is so frightened and mentally handicapped that he cannot give a cogent history at all.

We are unaware other than he is apparently not allergic to any medications. He is not on any current medications. He is now very tearful and scared.

PHYSICAL EXAM:

BACK: He has no back pain.

CHEST: Nontender.
ABDOMEN: Soft.
PELVIS: Normal.

NOSE: No septal hematoma.

HEAD, EYES, EARS, NOSE AND THROAT: Face is grossly stable. Mandible is unremarkable. The pupils are equal, round, react to light and

accommodation.

EXTREMITIES: Normal tone, bulk and strength except for the left knee which is markedly tender.

Cervical spine: He has a deviated that is to the right. There appears to be good alignment, it may be a congenital abnormality, but he will be maintained in spinal immobilization until CT can secure that.

We will evaluate his left shoulder, CT of his neck and his left knee with x-rays and have him observed and possibly admitted.

PROVISIONAL DIAGNOSIS:

see_page_3 (next page)

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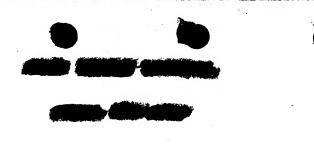
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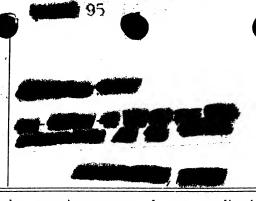
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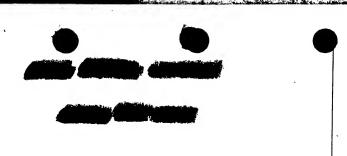
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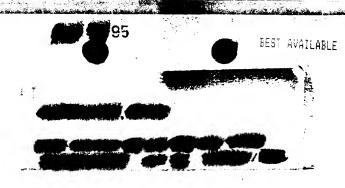
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1995

LEFT HUMERUS (FOUR VIEWS):

Indication: Multiple trauma.

Findings: The humerus has an intact appearance without evidence of fracture. The humeral head appears to lie in proper position. At the upper edge of the film, the orientation at the AC joint has an unusual appearance. Clinical correlation for the possibility of avulsion of the secondary ossification center from the acromion would be recommended.

LEFT SHOULDER (ONE AP VIEW):

Findings: A fracture of the mid shaft of the left clavicle is shown as on previous films. The secondary ossification center at the acromion appears to lie at a greater distance from the main body of the bone than is usually shown. This may represent a normal variant, however, clinical correlation for the possibility of an avulsion injury would be recommended.

CEREBRAL CT SCAN WITHOUT CONTRAST:

Indication: Multiple trauma.

Findings: Images are examined at bone window settings in addition to the usual brain windows. The bony calvarium has a normal intact appearance without evidence of fracture. There is no sign of acute intracranial hemorrhage. The ventricular system has a normal configuration. There is a symmetric pattern of cortical sulci. No abnormal low density areas of edema or infarction are shown.

IMPRESSION: NEGATIVE.

CT SCAN OF THE CERVICAL SPINE WITHOUT CONTRAST:

Indication: Multiple trauma.

Findings: Multiple thin section axial CT cuts were obtained through the skull base into the superior aspect of the third cervical vertebral segment. Images are examined at bone window settings. Sagittal and coronal reconstruction images are examined also. There is no evidence of a fracture. As noted on the plain films, the odontoid has an unusual

CONTINUED ON PAGE TWO



MEDICAL IMAGING REPORT STATION OR BED MEDICAL IMAGING NO. /81 M ATTENDING PHYSICIAN REQUESTING PHYSICIAN ADDITIONAL REPORT TO:

1995

LEFT KNEE (AP AND LATERAL VIEWS):

Indication: Multiple trauma.

Findings: There appears to be a small joint effusion. The epiphyseal plates of the distal femur and proximal tibia and fibula have a normal appearance. I do not identify a definite fracture. On the basis of the joint effusion, however, there would be suspicion for an occult fracture and perhaps it would be advisable to obtain oblique views. Clinical correlation would be helpful also.

LEFT CLAVICLE (ONE VIEW):

Indication: Multiple trauma.

A fracture of the mid shaft of the clavicle is shown. There appears to be some overlapping of the fracture fragments. The scapula also appears displaced inferiorly and the acromioclavicular joint is not well shown. Clinical correlation is suggested.

RIGHT ANKLE (THREE VIEWS):

Indication: Multiple trauma.

Findings: The osseous structures have an intact appearance without evidence of fracture, dislocation or other bony abnormality. The epiphyseal plates of the distal tibia and fibula have a normal intact appearance.

IMPRESSION: NEGATIVE.

CERVICAL SPINE (FOUR VIEWS):

Multiple trauma. Indication:

Findings: The cervical vertebrae are in normal alignment without evidence of fracture. There appears to be a congenital variant with the odontoid deviating to the right. I do not identify any lucent fracture lines. likely there is associated congenital anomaly of the C1 ring as well. clinically indicated, this could be evaluated further with CT.

CONTINUED ON PAGE TWO

BEST AVPILABLE

MEDICAL IMAGING REPOR MEDICAL IMAGING NO. MED. REC. NO. STATION OR BED PAGE TWO ATTENDING PHYSICIAN REQUESTING PHYSICIAN ADDITIONAL REPORT TO:

1995

LEFT FEMUR (FOUR VIEWS):

The femur does not demonstrate any definite evidence of fracture. anterior medial mid thigh shows a small radiopaque density that I believe most likely represents a small glass fragment. This may be on the patient's skin or in the subcutaneous fat. It measures approximately 4 mm

LUMBAR SPINE (AP AND LATERAL VIEWS):

There appears to be a congenital scoliotic curvature of the lumbar spine. There appears to be lumbarization of the first sacral segment. superior end plate of the second lumbar vertebral body anteriorly shows some sclerosis consistent with an epiphysitis. There is no sign of an acute fracture, however.

LEFT HAND (THREE VIEWS):

Indication: Multiple trauma.

Findings: The osseous structures have a normal intact appearance. is no sign of fracture, dislocation or other bony abnormality. There

IMPRESSION: NEGATIVE.

AP PORTABLE CHEST:

Indication: Multiple trauma.

Findings: At the superior edge of the film, a fracture of the left clavicle is evident. The patient is slightly rotated toward his right. The cardiac and mediastinal silhouette is within normal limits. No active infiltrates are shown in the lung fields.

AP PELVIS:

Both femoral heads lie in proper position at the acetabula. No definite fractures are shown. The sacrum at its superior aspect appears to show some lumbarization on the right side.

CONTINUED ON PAGE THREE

BEST AVAILABLE

ADDITIONAL REPORT TO:

PATIENT NAME

MEDICAL IMAGING REPORT

MEDICAL IMAGING REPORT

MED. REC. NO.

STATION OR BED

PAGE THREE

RIGHT FOOT (THREE VIEWS):

ATTENDING PHYSICIAN

Indication: Multiple trauma.

Findings: The osseous structures have a normal intact appearance. There is no sign of fracture or dislocation.

RIGHT FOOT (THREE VIEWS):

Still no definite fracture of the bones of the foot is shown.

REQUESTING PHYSICIAN



RES! AVAILABLE

REPORT

MEDICAL IMAGING NO. MED. REC. NO.

REQUESTING PHYSICIAN

IMAGING

STATION OR BED

ATTENDING PHYSICIAN

PATIENT NAME

PAGE TWO

ADDITIONAL REPORT TO:

configuration, deviating toward the patient's right and this represents a congenital variant. No abnormality of the occipital condyles is evident. The C1 ring shows some asymmetry, however, no fracture or bony destruction is shown.

IMPRESSION: CONGENITAL VARIATION OF THE ODONTOID WITHOUT SIGN OF BONY INJURY.

1995

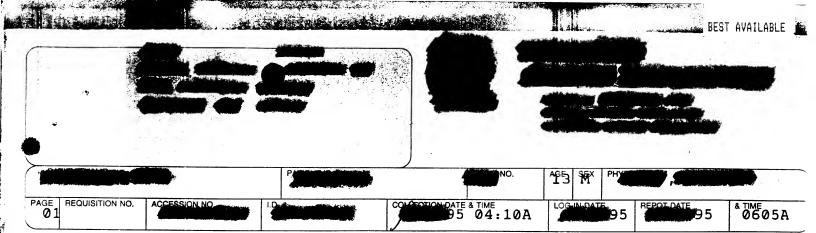
CT SCAN OF THE FACIAL BONES WITHOUT CONTRAST:

Indication: Multiple trauma.

Findings: Multiple axial images through the facial bones were obtained and images examined at bone and soft tissue windows. Several of the images are degraded by patient motion. There is not, however, any convincing evidence of facial bone fracture. The paranasal sinuses do not demonstrate any abnormal masses or fluid collections. No abnormality of the orbits is shown.

IMPRESSION: NEGATIVE.

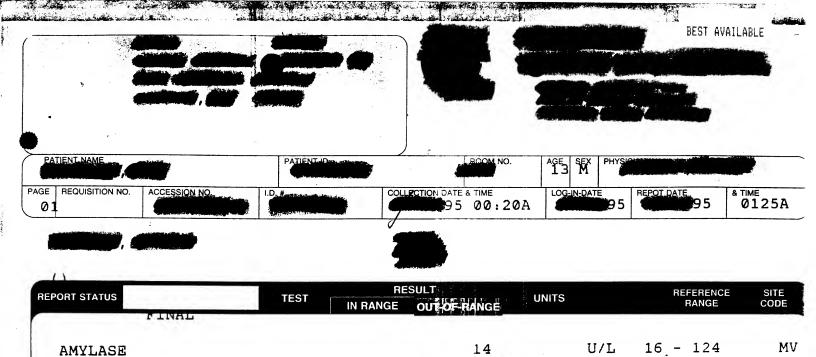




| REPORT STATUS | TEST | RE | RESULT | | -0 | REFERENCE | SITE |
|-----------------------|-------|----------|--------------|------|-------|-----------|------|
| TIME | IN RA | IN RANGE | OUT-OF-RANGE | UNIT | 5 | RANGE | CODE |
| CBC W/O DIFFERENTIAL: | | | | | | | |
| WBC | | | 14.4 | | K/MM3 | 4.7-11.4 | M . |
| RBC | | 4.63 | | | EMM/M | 4.30-5.80 | Μĭ |
| HGB | | 13.5 | | | G/DL | 13.0-17.0 | M |
| HCT | | 39.2 | | | ક્ષ | 39.0-50.0 | ΜV |
| MCV | | 84.8 | | | FL | 81.0-98.0 | M\ |
| MCH | | 29.1 | | | PG | 26.5-33.0 | /M |
| RDW | | 13.0 | | | કૃ | 11.5-15.0 | ΜV |
| PLT | | 199 | | | K/MM3 | 145-400 | /M |

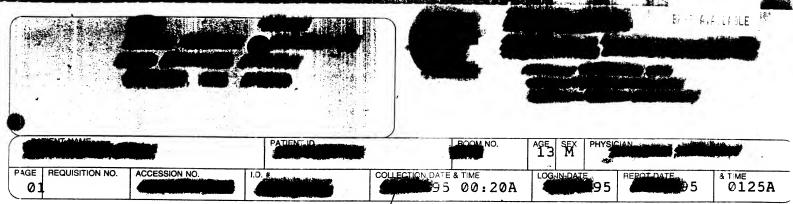
MV WORK PERFORMED AT

END OF REPORT-



MV WORK PERFORMED AT4

END OF REPORT-

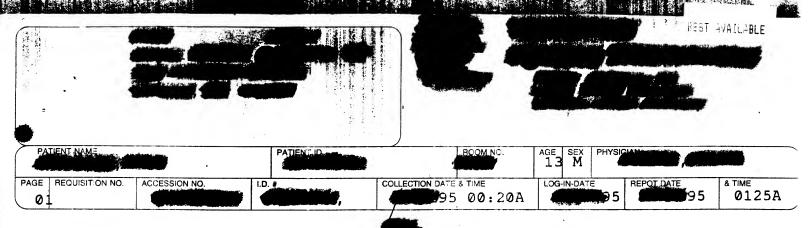


PART. THROMBOTIME, ACTIV (APTT),



| REPORT STATUS | TEST | RESULT IN RANGE OUT-OF RANGE | UNITS | REFERENCE RANGE | SITE CODE |
|--------------------------------------|------|---------------------------------|---------|--------------------|--------------|
| PARTIAL THROMBOPLAS PARTIAL THROMBOP | | (AP 22.7 | SECONDS | 20.0-29.0 | MV |
| MV WORK PERFORMED | | | |) | |

COMPUNE



PROTHROMBIN TIME (PT),

| REPORT STATUS | TEST | RESULT | TOF FANGE | UNITS | REFERENCE RANGE | SITE CODE |
|-------------------|------------|------------|-----------|---------|--------------------|--------------|
| LIMB | | • | | | | |
| PROTHROMBIN TIME: | | | | | | |
| PROTHROMBIN TIME | | 13.3 | | SECONDS | 10.9-13.8 | MV |
| CONTROL MEAN | | 12.5 | | SECONDS | • | MV |
| INR | | N/ | A | | 2.0-3.5 | MV |
| | R PROTHROM | BIN TIMES, | EFFECTIVE | | , 1995. | |

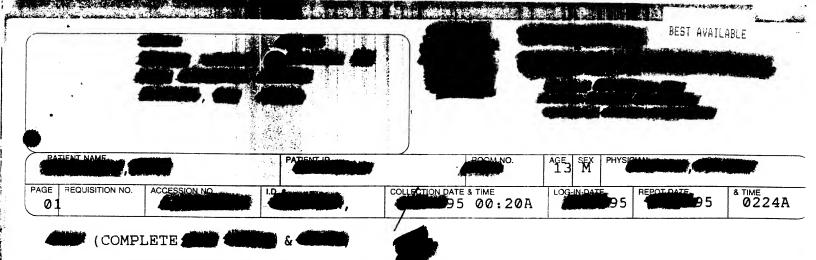
REVISED NORMAL RANGE = 10.9 - 13.8 SECONDS REVISED THERAPEUTIC RANGE = 17.7 - 24.0 SECONDS

NOTE: THOUGH THE PROTHROMBIN TIMES AND PROTHROMBIN TIME RATIOS ARE SLIGHTLY INCREASED OVER PREVIOUS VALUES, THE INR RESULT IS NOT AFFECTED BY THE REAGENT CHANGE.

MV WORK PERFORMED AT

HOSPITAL OIRECTOR

END OF REPORT-



| PORT STATUS | TEST RESU | LT UT-OF-RANGE | UNITS | REFERENCE RANGE | SITE |
|--------------------|------------|-------------------|----------------|--------------------|------|
| LINKL | | | | | |
| | | • | | | |
| WBC | | 16.6 | K/MM3 | 4.7-11.4 | Ŋ |
| RBC | 4.71 | | M/MM3 | 4.30-5.80 | 1 |
| HGB | 13.4 | | G/DL | 13.0-17.0 | 1 |
| HCT | 40.4 | | ક્ષ | 39.0-50.0 | 1 |
| MCV | 85.7 | | ${	t FL}$ | 81.0-98.0 | |
| MCH | 28.4 | | PG | 26.5-33.0 | |
| RDW | 13.3 | | ક | 11.5-15.0 | |
| PLT | 203 | | K/MM3 | 145-400 | |
| ABS NEUT | | 14.3 | K/ MM 3 | 2.7-8.1 | |
| ABS LYMPH | . 1.6 | | K/MM3 | 1.1-4.0 | |
| ABS MONO | 0.7 | | K/MM3 | 0.3-1.1 | |
| ABS EOS | 0.0 | t e | K/MM3 | 0.1-0.5 | |
| ABS BASO | 0.0 | | K/MM3 | 0.0-0.2 | |
| NEUTROPHILS | | 78 | 8 | 42.0-76.0 | |
| BANDS | 7 | T. | 8 | 0.0-10.0 | |
| LYMPHS | | 11 | 8 | 14.0-51.0 | |
| MONOS | 4 | | કૃ | 4.0-10.0 | |
| EOS | | Ø - | ક | 0.5-7.0 | |
| BASOS | | 0 | 8 | 0.4-2.0 | |
| MYELO | 0 | | ક | 0.0-0.0 | |
| NRBC | 0 | | /100 WBC | 0 | j |
| COMMENTS | | | | | 1 |
| *TOXIC GRANULATION | I - NOTED. | | | | |

MV WORK PERFORMED AT

END OF REPORT-

DIRECTOR

Patient: Id No:

Care Area:

Age: Bed:

Admitted: &

Date:

Time: 11:31 PM

Page: 1

Physician:

HEMATOLOGY - COMPLETE BLOOD COUNT

Partial report for this group beginning 75.

78 H

11 L

1

Q L

0 L

(302)

O

Date: Time: 04:10: 10:40A WBC 10.3 14.4 -15.5 H 4.52 REC 4.63 4.71 HGB 12.9 13.5 13.4 HCT 38.7 L 39.2 40.4 MCV 85. 6 84.8 85.7 MCH 28. 5 29.1 28.4 RDW 14.0 13.0 13.3 178 PLT 159 203 ABS NEUTS 14.3 H ABS LYMPH 1.6 APS MONDS 0.7 ABS EOS 0.0 ABS BASOS 0.0

Normal Range:

Units:

4.7 - 11.4K/MM3 4. 30-5. 80 M/MM3 13. 0-17. 0 G/DL

39. 0-50. 0 7. 81.0-98.0 FI 26.5-33.0 PG

11.5-15.0 145-400 K/MM3

2.7-3.1 K/MM3 1.1-4.0K/MM3 0.3-1.1K/MM3

0.1-0.5 K/MM3 K/MM3 0.0-0.2

42.0-76.0 0.0-10.0 %

14. 0-51. 0 % 4.0-10.0%

0.5-7.0 7. 7. 0.4-2.0

0.0-0.0 7. /100 WBG

FOOTNOTES (HEMATOLOGY - COMPLETE BLOOD COUNT) - - - -

302> TOXIC GRANULATION - NOTED.

COAGULATION - ROUTINE

Partial report for this group beginning 95.

Date: Time:

Q0: 20A

Normal Range:

Units:

10. 9-13. 8 SECONDS

PT-PATIEN 13.3 PT-CONTRL 12.5 PT-INR N/A

(777) 22. 7

2.0-3.5

SECONDS

20.0-29.0 SECONDS

Patient:

APTT

NEUTS

BANDS

MONOS

BAS05

NRBC

NOTES

MYELOS

EOS

LYMPHS

BEST AVAILABLE

Admitted:

Physician:

Date: Time: 11:31 PM

Page: 2

Sex: Age:

********************************* Partial report for this group beginning

FOOTNOTES (COAGULATION - ROUTINE)

'patient:

Id No:

777> REAGENT CHANGE FOR PROTHROMBIN TIMES, EFFECTIVE

REVISED NORMAL RANGE = 10.9 - 13.8 SECONDS REVISED THERAPEUTIC RANGE = 17.7 - 24.0 SECONDS

THOUGH THE PROTHROMBIN TIMES AND PROTHROMBIN TIME RATIOS ARE SLIGHTLY INCREASED OVER PREVIOUS VALUES, THE INR NOTE:

RESULT IS NOT AFFECTED BY THE REAGENT CHANGE.

MATOLOGY, COA BLOOD BANK,

Patient

Patient: Id No:

AL MAN CONTRACTOR OF THE STATE

Care Area:

Bed:

Admitted: 1

Time: 11:31 PM

SECT AVAILABLE

Physician: Page: 3

SERUM CHEM DONE AT

Partial report for this group beginning

| Date: | | | Normal | |
|-----------------|--|---|----------------------------|--------|
| Time: | 00: 20A | | Range: | Units: |
| GLUCOSE | 158 H | | 70-115 | MG/DL |
| NA | 142. 2 | | 134-149 | MEQ/L |
| К | 4. 56 | | 3. 5-5. 3 | MEQ/L |
| CL | 110. 3 H | | 100-110 | MEQ/L |
| CDS | 25. 5 | | 21-31 | MEG/L |
| BUN | 15 | | 5-22 | MG/DL |
| CREAT | 0. 8 | | 0.5-1.4 | MG/DL |
| BUN/CR | 19 | | 7-25 | |
| T PROTEIN | 7.1 | | 4-8. ≥ | GM/DL |
| ALBUMIN | 4.8 | | 3.4-5.0 | GM/DL |
| GLOBULIN | | | 2, 2-3, 6 | G/DL |
| A/G RATIO | 2. 1 H | | 0, 8-2, 0 | |
| CALCIUM | 9. 4 | | 8.4-10.2 | MG/DL |
| PHOS | 4. 7 H | | 2. 2-4. 2 | MG/DL |
| URIC ADAD | <u>4</u> . F | | 3, 4-7, 0 | MG/DL |
| BILI T | 0. 2 | | 0.1-1.2 | MG/DL |
| AST | 36 | | 0-37 | U/L |
| ALT | 21 | | 0-40 | UZL |
| LDH | 307 H | | 117-219 | U/L |
| ALK PHOS | 360 H | | 39-117 | U/L |
| GGT | 13 | | 11-50 | U/L |
| AMYLASE | 14 L | | 16 - 124 | U/L |
| CHOL | 171 | | 120-200 | MG/DL |
| | (8031) | • | | |
| TRIG | 81 | | 10-190 | MG/DL |
| | Account of the same of the sam | | | |

8031>

CHOLESTEROL LEVEL

FOOTNOTES (SERUM CHEM DONE AT

LESS THAN 200 MG/DL

200-240 MG/DL

GREATER THAN 240 MG/DL

ASSESSMENT

DESIRABLE

BORDERLINE HIGH

HIGH

Patient:

BEST AVAILABLE -

Patient:

Id No: Age: 13 Sex: M Care Area: 4

Admitted:

Time: 11:31 PM

Page: 4

Physician: (

LIPID STUDIES Partial report for this group beginning 95.

Date: Normal

Time: 00: 20A Range: Units:

TRIG 81 10-190 MG/DL

YPatient: Admitted: Date: Id No: Time: 11:31 PM Physician: Page: 5 Care Area: ! Bed: URINALYSIS - ROUTINE Partial report for this group beginning 95. ---A-----E---Date: Normal Time: 00:14A Range: Units: COLOR YELLOW APPEAR HAZY PH 7.5 4.5-8.0 SP GR 1.015 1,005-1.03 NEG NEG GM/DL NEG NEG

ALB GLUC KETONE NEG NEG BILE BLOOD LARGE UROBIL NORM NITRIT HEG LEUK EST NEG **○**-4 WBC >150 RBC CASTS NOTE

NEG NEG NEG NORM NEG 0-6 /HPF 0-4 /HPF /LPF

/LPF

SMALL MUCUS O SEEN BACT CRYST O SEEN NOTES (5301)

EPI

FOOTNOTES (URINALYSIS - ROUTINE) -

53010 PERFORMED IN ETR BY

END OF REPORT -

A: GRAN CAST: 0-4

0 - 4

Patient: EXC IEP), OL, CSF, MIS

Dear

The National Highway Traffic Safety Administration (NHTSA) under the authority of the U.S. Department of Transportation is conducting a research investigation into a two vehicle crash which occurred on 1995 at 8:23 P.M. on in the City of Two of the participants in the crash; and her thirteen year old son were transported from the scene and admitted to your medical facility. This investigation is particularly important to the NHTSA due to the presence of front seat air bags which deployed during the crash.

Calspan Corporation is under contract with the NHTSA to conduct this investigation and in this capacity we need to obtain copies of the medical records for and and which identify injuries they suffered in the crash. The following records are requested:

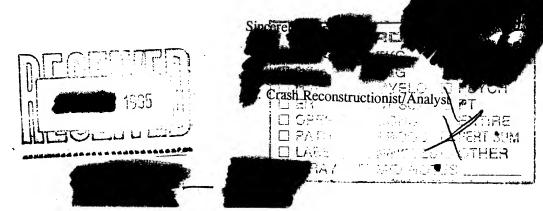
- Discharge Summary
- Emergency Room Record
- Surgical Records
- Pre-operative Radiology Reports
- Medical Consultation Reports
- Any additional record(s) which identify patient injury (e.g., pertinent nurses notes, etc.)

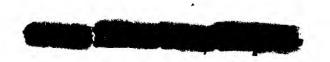
Enclosed are two signed Medical Release Forms from as required by your medical facility. You should be aware that NHTSA's interest in this crash resides with the effectiveness of applicable Federal Motor Vehicle Safety Standards and not with passenger identification. Federal law requires the exclusion of personal identifiers from investigative reports to protect the privacy of the crash victim.

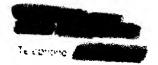
Thank you for your cooperation and support. It was a pleasure speaking with one of your colleagues, on the control of the concerning this matter.

If you have any questions, please call me at The copies can be mailed to: Calspan Corporation, P.O. Box 400, Buffalo, New York 14225, "Attention: Research".

Enclosures







Dear records requester:

We have received your request for medical records maintained by Hospital and, as discussed below, have referred your request to an independent company, for immediate processing on our premises.

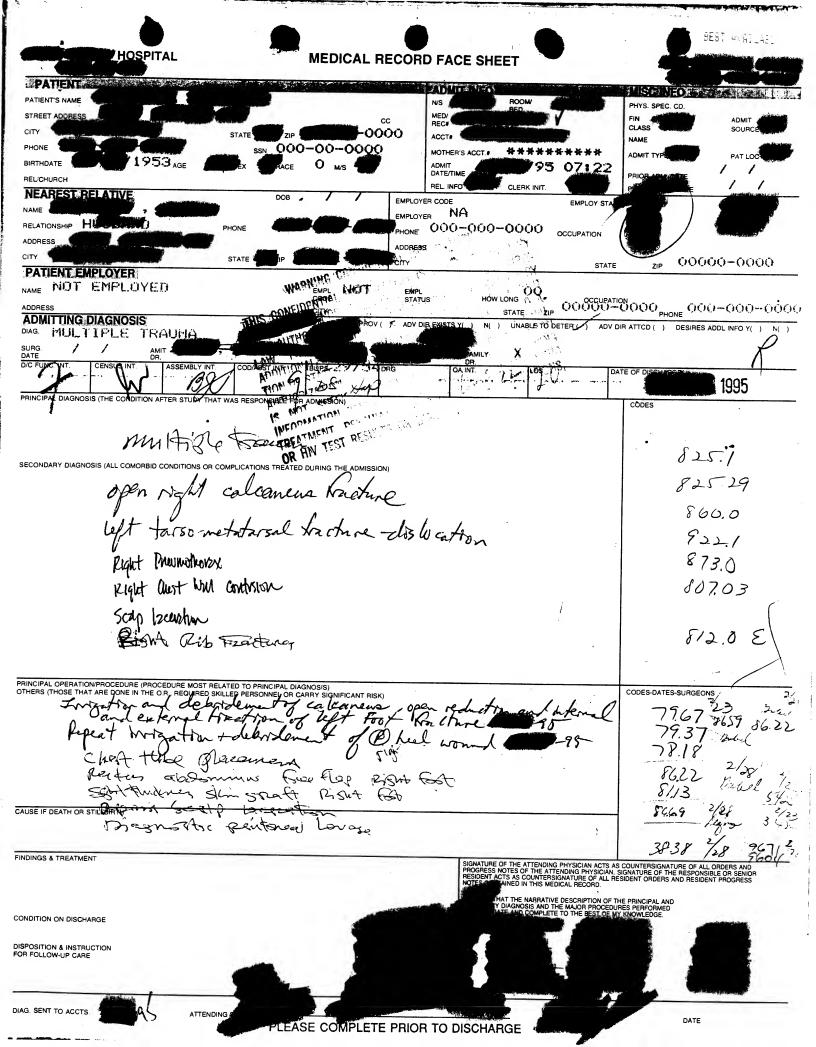
We maintain medical records during a patient's stay so we can provide quality patient care. The primary reason medical records are maintained following discharge is to facilitate the continued medical care of the patient. The records of a patient may be inspected and copied by the patient (in most cases), his physician, and any other person authorized by the patient or by law. Because the expense of copying records diverts time and money from our primary mission of providing health care, we do not provide the service of copying the records you requested, and we do not maintain copy facilities for the public use. To avoid delay and inconvenience to you, however, we have referred your request to our in-house correspondence service,

Sincerely,

Medical Records

A WORD ABOUT MED-COR

professionals that serves a number of hospitals in this area and across the United States. Was conceived as a for-profit company that would help hospitals devote more money to the delivery of health care while providing better service to records requesters. As its contribution to this hospital's delivery of health care. Shares with this hospital a portion of all fees collected for services provided to requesters like you and also provides, without charge, a number of valuable copying and mailing services for this hospital. Services for this hospital. Hospital.



| | | | ac | Imit. | | | BEST AVAILABLE |
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| For and in consideration of services re and at its prevailing rates at the time payment directly to the attending claims are not settled/closed until after and forward all insurance benefits recidischarge. I understand that no action my obligations to verify insurance cover physicians or specialists who charges are Pursuant to Section of the usual and customary charges for a selection of the usual and customary | services are g physicians r all related is even by me shall be rage and to deparately from Revised Cected number | rendered. I understand the and/or their obtainates, on surance payments are refor said claims. Should the relieve me of my sole respondence of the control o | at all charges are d of all insurance bene eceived, and if there e account become o consibility to fulfill all fication. I further und or specialists are ac n request, to a list o ergency room, opera | ue and payable efits and guarar e is a remaining delinquent, I agri obligations und lerstand that as ting as indepen f the usual and ating room, deliv | thee to pay any light balance, I/We are to pay interested to pay interested a patient, I may dent contractors customary chargery room, physic | . I hereby assispalance. I/We upgree to prompt at the legal reinsurance I mareceive service and are not empes for room an al therapy, occ | gn and authorize understand these tity pay the same rate, from date of ay have including from emergency aployees of ad board, and the upational therapy |
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| I certify that the information given medical or other information about this or a related Medicare claim. I req | me to rele | ase to the Social Secu | rity Administration | or, its interme | rity Act is corrections or carrier | ect. I authoriz s any informa | e any holder of ution needed for |

MEDICAL RECOMDS

Witness

(Patient or authorized repre-

HOSPITAL EMERGENCY AND TRAUMA CENTER' MEDICAL RECORD

NAME: MR#: ATTENDING:

ACCOUNT #:

ADM DATE: PRO DATE:

DIS DATE: VIS TYPE: DOB: SEX:

95

/53 UNIT: ROOM:

CHIEF COMPLAINT:

Automobile accident.

This is a 41-year-old female passenger. She was a front seat belted passenger in a serious motor vehicle accident. There were multiple patients injured, some of them very severely. She was brought in by ground medic with only a brief warning prior to her arrival. She is in severe distress and complete spinal immobilization.

SOCIAL HISTORY: She does not smoke or drink or take illicit drugs. She lives at home with her family.

REVIEW OF SYSTEMS:

All her systems are reviewed and are negative.

FAMILY HISTORY:

Negative for cancer, hypertension, diabetes.

PHYSICAL EXAM:

VITAL SIGNS: Blood pressure is 140/94, pulse rate 138, respirations 24. She is not grossly febrile. She is in complete spinal immobilization. HEAD, EYES, EARS, NOSE AND THROAT: She has an abrasion on her inner upper lip and complains in head pain. She is maintained in spinal immobilization.

CHEST: There is obvious crepitus and there are multiple rib fractures. Breath sounds are present but decreased on the right.

HEART:

Regular rate and rhythm. No palpable deformity. Nontender along the thoracic and lumbosacral spines. BACK: ABDOMEN: There are bowel sounds but marked guarding.

PELVIS: Pelvis is stable.

GENITOURINARY: Unremarkable. No vaginal changes are found.

RECTAL: Unremarkable.

A Foley catheter was placed without problems. Left foot is markedly tender. The leg is unremarkable. There is an open talus fracture on the right and the patient is turned over to trauma's care. CT shows fluid of peritoneal lavage and a small pneumothorax. PT is 13.6. Urinalysis has 20-40 red cells and large blood. White count is 13. Electrolytes are essentially normal. White count is 18,000, hemoglobin 9.8. Alcohol is

HOSPITAL EMERGENCY AND TRAUMA CENTER MEDICAL RECORD

NAME: MR#:

ATTENDING: ACCOUNT #: ADM DATE: PRO DATE:

95 DOB:

DIS DATE:

VIS TYPE :

ROOM:

SEX: UNIT:

none detected. Amylase is 32. EKG is sinus tachycardia.

PROVISIONAL DIAGNOSIS:

Right pulmonary contusion, right rib fractures, open fracture right talus and left metatarsal fracture.

DICTATED BUT NOT REVIEWED BEFORE SIGNATURE

EILERS

23:48 dlp

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| TIME | TEMP | Р | R | B.P | LAST TETANUS | PATIENT NAME | |
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| | | | | · | E.D. Dr. FIRST SEES PT. | SEX | |
| | | | | | E.D. Dr. DISCH. TIME | DATE | |
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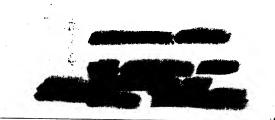


SEX MAR ACCT, NO.

| MS SERVICE: EMS | RUN REP | ORT FORM | DATE: -95 |
|--|--|--|--|
| COUNTY: | | - | RV UMBER |
| LOCATION OF CALL: | LEC.D | AGENCY/PERSON AG | NO PATIENT. |
| NATURE OF CALL M VA | BLS TO SCENE | | TIME |
| | ALS TO SCENE | ER# | HOSPITAL USE ONLY DISPOSITION DEPOSITION |
| NAME:PHONE: | 2027 | ADMIT# | DOA HOLDING |
| ADDRESS:CITY: | BLS AT SCENE | DIAGNOSIS. | C LAMA |
| AGE SEX M DEF HOSPITAL MV | ALS AT SCENE | | NOT SEEN |
| TIME BIP PULSE RESP AVPU MONITOR RHYTHM | 7030 TC HOSPITAL | 160 | T/R TRANSFER |
| 2042 194 138 24 16 A ST@ 130 | 2051 | | MILEAGE |
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| 2058130/P 130 24/6 A ST@ 130 | IN SERVICE | RUN TYPE: TEMERGENT | NON-EMERGENT C SCHEDULED/TRANSFER, ONO REMOVAL |
| 1,04/ | 1 | | INOR SERIOUS CRITICAL APPARENT DOA |
| 2103/29/130 19/65 A ST@ 130 | | COMMUNICATIONS. TELM 7 | BLS ALS PHONE DISPATCH |
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Regional Trauma Center TRAUMA ADMISSION HISTORY & PHYSICAL Page 1 of 5



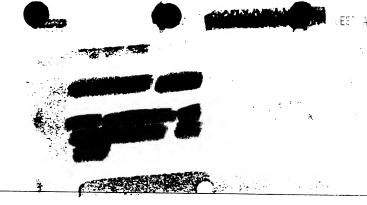
| Age: Se | ex: Race: LO | Admission Date: _ | | Admission Time: | 9:35 |
|-----------------------------------|---|-------------------|--------------------------------|--|---|
| Referring MD: | | Injury Date: | , E | Injury Time: | A. P. |
| Referring Hospita | al: | Tra | nsport Mode: Ambular | nce Helicopter | ☐ Car ☐ Other |
| MECHANISM | MVA 🖸 | MOTORCYCLE - | gun shoт □ | BURN 🗆 | OTHER |
| OF | Single Vehicle | BICYCLE | Caliber ft. | Flame Scald | |
| INJURY | Scene Fatality | FALL 🗌 | SHOT GUN 🗆 | Electrical Chemical | FARM RELATED INJURY |
| : | Front Seat Restrained Ejected Rollover Pedestrian | Distanceft. | Gauge ft. | Contact Inhalation | Yes □ No □ · · |
| HISTORY: | r caestriari | ASSAULT . | STAB WOUND | House Fire PAST MEDICAL | WORK RELATED INJURY Yes □ No□ |
| | wq restrained on mvA. | | · | Cardiac L Pulmonary Renal Diabetes Neurologic Vascular | |
| | Prior To Arrival: | cc. | | Trauma ☐ Smoking ☐ | |
| MEDICATIONS: | wn \Box | ALLERGIES: | - iknown □ | Etoh/Tox Other Surgery None Unknown | Crecken ×3 |
| HYSICAL EXAM INITIA VITAL S | IS B.P. FO 55 | 28 | SECONDARY VITAL SIGNS: B.P. | 155 77 RR 24 | O Intubated: Yes No No No No No No No No No N |
| Ormal: CRANI FACIA | | · trensters | e lecertion | · occip | stal scalp |
| EYE | | | . • | | • |
| NOS | SE: | | | | |

ORAL:



Regional Trauma Center TRAUMA ADMISSION - PAGE 2

History & Physical



PHYSICAL EXAM: (Continued)

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BACK:

PELVIS: Conhision @ sp. iliai crost region

RECTUM:

GENITALIA:

EXTREMITIES: open wand medial aspect (R) tolus/calamons

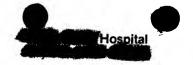
| | Carotid | Brachial | Radial | Femoral | Popliteal | Pedal |
|--------|---------|----------|--------|---------|-----------|-------|
| Right: | 24 | 2r | 24 | 14 | 1+ | 14 |
| Left: | 25 | 21 | 21 | 1+ | (+ | 1+ |

Pupils

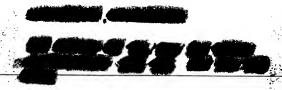
R 3 mm L 3 mm Sensory:

DTR:



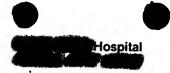


Regional Trauma Center TRAUMA ADMISSION — PAGE 3



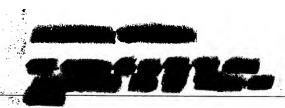
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| His | tory & Physical | | | | 7 | | |
|--|----------------------|----------------------------------|--|--|--|---|---|
| GLASGOW | COMA SCALE: | | | | N. J. and Politican | | |
| ☐ To verbal col☐ To pain | NG Sly 4 mmand 3 2 1 | Purposeful Withdraws Flexion (pa | ESPONSE Imands movement (pa (pain) in) pain) | 6 (ain) 5 4 3 2 | Orient Confu Inappr Incom None | AL RESPONSE ed sed ropriate words prehensible word GCS Points | 4 3 3 ds 2 1 |
| REVISED TR | AUMA SCORE: | | | | | | |
| ☐ 13-15 □ 9-12 □ 6-8 □ 4-5 | COMA SCALE 4 3 2 1 0 | □ > 29 □ 6-9 □ 1-5 | ORY RATE | 3 2 1 | ☐ > 89 _ ☐ 76-89 ☐ 50-75 ☐ 1-49 _ | DLIC BLOOD PP | 4 3 2 |
| LABORATORY: | | | | | | • | |
| Ordered: Results: CBC | | 2 2 9 Cr | 11 173 0-4 | Ordered: ABG pH pCO ₂ pO ₂ Sati | | ☐ HCG: | nm ³ <u>20 - 4</u> 0 + - units |
| Cordered: Results: DPL No policy of the control of | _ cc | Results: | E | _ | rmal | ť | |
| RADIOLOGY | | | | | | | |
| PLAIN FILMS: | | | CT SCA | NS: | | | |
| ORDERED NORMAL | . INTERPRETATION: | | ORDERE | D INTER | RPRETATION: | *************************************** | |
| Chest: | m-1+:ple NT8-1 | 0 | Н | lead: | | | |
| Pelvis: 风 | | | Abdor | nen: Reku | ind flue romal. | H d (au Small | pundic |



Regional Trauma Center TRAUMA ADMISSION — PAGE 4

History & Physical



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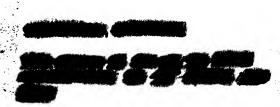
| Radiology: (Continued) | | | | | |
|---|-------------------------|-------------|-------------------|------------------|---------------|
| PLAIN FILMS: | | | CT SCANS: | | A Commence of |
| ORDERED NORMAL | INTERPRETATION: | | ORDERED | INTERPRETATION: | |
| Thoracic Spine: | | | ☐ Pelvis: | | |
| | | | _ | | |
| Lumbar Spine: | | | Protocol / | | |
| ` | | | Protocol I | 8 | |
| Abdomen: | | | | | |
| | | - 20 | | | |
| ☐ Facial: ⊡ | • | | ☐ Face: | | |
| | | | • | | |
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| Extremities: RUE: | | | ☐ Spine: | | • |
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| LUE: | | | | | |
| | | | Other: | | |
| ☐ RLE: □ | 0 -6 | | (specify) | | |
| O NEE. O | Communited calcula | altx. | | | |
| M | | | | | |
| Foot | fx mb | -evsz | ANGIOGRAPHY: | | |
| F00 1 | 2-5 | | LOCATION: | INTERPRETATION: | |
| Other: (specify) | | | | | .w.' |
| (specify) | | • | | | |
| | | | | | |
| □ IVP: □ | | | • | | |
| | | | · | | |
| PROCEDURES: | | | | | |
| Central Line Subclavian/internal jugular | R: 🗆 L: 🗀 | T. | Nasal Intubation: | DPL: | |
| | | | Oral Intubation: | ICP Monitor: | |
| Femoral Cut Down | R. 🗆 L: 🗆 | Cr | CPR: □ | Arterial Line: | |
| Saphenous Other Site | R: | Chest Tube: | R: KL: C | Othor: \square | |
| Other Oile | n. u L. u | Pe | | | |
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Regional Trauma Center TRAUMA ADMISSION — PAGE 5

History & Physical



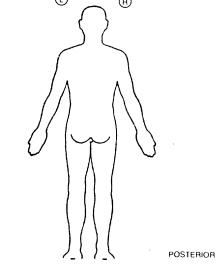
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| INJURY SUMMARY/PLAN: | | | | | 1 |
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| 2. 1 Incidental p | +× | 0 m | CT Sca. | M | |
| 3. B Colonery Fo | L - 0 per | | | | |
| 3. (E) (1/2) +3 4. M-1+:pk (T) 5. (D) M(+2+2+(2) + | r:b + | + 2 | = p-lmon | in cont | (|
| 5. (I) Mitztargal f | × 5 | | | | |
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| | | • | • | | |
| ADMITTING SERVICE: RED BLUE | | | | ADMIT TO : Floor | Morgue |
| Trauma Attending Notified Yes No | | | M.D. | | Coroner Notified |
| | | ne 10: | | | Coroner Notified |
| | 111 | ne | P.M.) | OR | |
| | | | | | |
| CONSULT SERVICES: | | | | <i>y</i> | |
| □ Neurosurgery M | D. Timo | A.M. | ☐ Ophthalmology _ | | M.D. |
| | | | Oral Surgery | | O.D. |
| OrthopedicsM | | | Pediatric Surgery | (| M.D. |
| ☐ Cardiothoracic | | M.D. | Surgical ICU | | . ` M.D. |
| Plastic Surgery | | M.D. | | | ~ |
| Otolaryngology | | M.D. | | | |
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| | Physic | ian's Signatur | 200 | | |
| | FIIYSIC | iai is Signatur | 7 | | (M.D.) |
| | Traum | a Attending _ | | and the same of th | M.D. |
| | | | the state and | | |

HOSPITAL CHIEF COMPLAINT / MECHANISM PROTECTIVE DEVICES: X SEAT BELT ☐ HELMET NONE ☐ UNKNOWN OTHER: MECHANISM: Head on Collision DATE & TIME OF TRAUMA: SQUAD: MEDICATIONS: ALLERGIES: PAST MEDICAL HISTORY: LAST TETANUS Derus HEIGHT: WEIGHT: LAST PO INTAKE: epm B (L) ABRASION BURN CONTUSION

TRAUMA FLOW SHEET

| PREHOSPITAL CARE | REZI AVAILABL |
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| CPR S X NO | |
| AIRWAY | |
| ☐ CANNULA 🕅 MASK | Δ. |
| □ OT □ CRIC | |
| □ NT % / <i>UD</i> /. | |
| PREHOSPITAL INTAKÉ | |
| CC | |
| MAST: | |
| ☐ APPLIED ☐ INFLATED | |
| ☐ ® Leg | |
| □ Û Leg | |
| ☐ ABD | |
| SPINAL IMMOBILIZATION | |
| E CERVICAL COLLAR | |
| BACKBOARD | |
| 17 CID | |



CLOTHES / VALUABLES CHECK LIST

| Underwear | Socks/stockings | Dentures |
|------------------|-----------------|-------------------|
| Pants/jeans | Shirt/blouse | Contacts/glasses |
| Skirt/dress | Coat/jacket | Hearing Aide |
| Shoes/boots | | Other |
| Cash total | | |
| Credit Cards # | | |
| Jewelry | | |
| Inventoried by | | |
| | | signatur signatur |
| To Security | | |
| | | signatur signatur |
| To family | | |
| | | name |
| Retained by Pt.: | | |

responsibility for, or replace, loss of clothes, personal property, money or valuables

Recorder

kept by patient.

ETC.STAFF SIGNATURE

| , | \\ | | _ |
|---------------|----------------|-------------|----------------|
| | TRAUMA TE | AM RESPONSE | |
| TRAUMA ALERT | NAME | TIME CALLED | TIME RESPONDED |
| ETC PHYSICIAN | | 905 | |
| SURGERY. | | | |
| RESIDENT | | 13905 | 915 |
| CHIEF | | 9 05 | 915 |
| ATTENDING | and the second | | |
| ORTHOPEDIC | | 905 | 925 |
| NEURO | | | |
| ANESTHESIA | | | |

LACERATION ENTRANCE

DEFORMITY

EXIT

EN - W

EX - W

ANTERIOR

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| PROCEDURE TIME | COMMENTS | PROCEDURE | TIME | COMMENTS | PROCEDURE | TIME | COMMENTS |
|-------------------|----------|---------------------|------|----------|----------------|------|-------------|
| Respiratory | | Circulatory (Cont.) | | | Laboratory | | |
| ET/CRICO | | Arterial Line | | | Trauma | 1 46 | |
| Ambu | | Swan-Ganz | | | СРК-МВ | | |
| Ventilator | | | | | UCG | 1 | |
| Oxygen 905 | mask | GI / GU | | | Peritoneal | | |
| Chest Tube: R | | Rectal Exam | 970 | NHewo | Dipstick UA | 995 | (+) |
| L 1340 | Droggus. | Foley | | | Type & Cross | | Done |
| Needle Thora | | Gastric Tube | NHC | nalesgo | Drug Screen | | 1)0 (0 |
| | | | | | X-Ray | | |
| Circulatory | | Immobilization | | | C-Spine | 033 | |
| Masts: ABO | | Cast (Splin) | | D nehl | CXR | 2 | X3 Lotal |
| Leg R | r | | | 9 | Skull | | 77. |
| Leg L | | integumentary | | | Pelvis | 2240 | |
| Pressure Drsg | | Suture | | | KUB | | |
| horacotomy | | Dressing | | | CT Head | | |
| ericardiocentesis | | Burn , | | | CT Abd | 2230 | |
| eritoneal Tap | | Other | | | Extremities | 733 | Bonelle |
| Line #16 RA | C MODE | chorm | 50) | 928 | IVP | | |
| Line# 18 CA | c 1000 | chron | 500 | 95 | | | |
| / Line | | | | P | Other: 12 Lead | 2300 | Done |
| / Line | | | | | Temptrol | | W. V |
| lood Warmer | | | | | | | |
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| | | | | | | | OUTPUT | DECT AHAI | I ABI |
|------|--------|---------|-----------------------|-------------|-------|------------------|---------------|-----------|-------|
| TIME | IV NO. | SITE | SOLUTION | AMT INFUSED | TIME | URINE | CHEST R/L | BEST AVA | LABL |
| | P | RE-HOSF | PITAL INTAKE | Ø | | | 50 | 300 | |
| 2200 | 3 | | 1000x. Nor posol | 2000 | | | | | |
| 260 | 4 | | 1000x, Norman 1 | | | * | | 1 10 11 | |
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NAME: ATTENDING: M.D. ACCOUNT #:

ADM DATE: PRO DATE: DIS DATE:

VIS TYPE:

895

DOB: SEX: UNIT:

ROOM:

DISCHARGE DIAGNOSES:

- Multiple trauma of right open calcaneal fracture, left tarsometatarsal fracture dislocation.
- 2. Right pneumothorax.
- 3. Right chest wall contusion.
- Scalp laceration. 4.
- Right rib fractures.

PROCEDURES:

- Irrigation and debridement of calcaneus.
- Open reduction, internal fixation, and external fixation of left foot
- 3. Repeat irrigation and debridement of right heel wound.
- 4. Chest tube placement.
- 5. Rectus abdominous free flap for right foot.
- 6. Split-thickness skin graft to right foot.
- 7. Repair of scalp laceration.
- 8. Diagnostic peritoneal lavage.

HISTORY & PHYSICAL: Please refer to the history and physical on the chart for details of her history.

The patient was admitted on ______/95. She is a 41-HOSPITAL COURSE: year-old white female who was involved in a high speed head-on motor vehicle accident. She was the restrained driver with a lap and chest seat belt. She sustained a right pneumothorax and right-sided chest injury. She was ruled out for significant intraabdominal trauma by peritoneal lavage and CT. She subsequently underwent open reduction and internal fixation of her right calcaneal fracture and left foot frank fracture. Chest tubes were placed for her right pneumothorax. She was cared for in the Intensive Care Unit but was rapidly transferred to 3-West on the 1st trauma day. The patient was subsequently seen by سم ر in rehab for evaluation of her injuries. On the 1st post trauma day the patient was noted to have positive air leak. She was placed back to wall suction. She was taken back to the operating room on (95 and underwent irrigation) and drainage and dressing changes to her right foot injury. Plastic surgery was consulted for evaluation and coverage of her right foot wound.

95 she went back to the operating room and had repeat irrigation and drainage of her right os calcis fracture. She underwent a subtalar arthrodesis as well as rectus abdominous free flap placement to the wound The patient, from a general surgery standpoint, had steady progress. She was continued with aggressive pulmonary toilet. Her chest tube was sealed. It should be noted that postoperatively after placement of her free flap she was cared for in the Intensive Care Unit for a short time.

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She was subsequently transferred back out of the Intensive Care Unit. Her chest tube was discontinued. By the 8th post trauma day her scalp staples had been removed. A tertiary exam was done, and no further injuries were identified. She was continued to be followed by plastics, and she was noted to have good healing of her abdominal wound. She was noted to have good blood flow in her free flap. The patient was noted to have some low-grade temperatures, and this was felt to be pulmonary in origin. She was continued on aggressive pulmonary toilet. The patient did complain of some dizziness when shifting from bed position. She was noted to have some fluid behind her right ear drum, and she was started on Entex with subsequent resolution of her dizziness. The patient was started on rehab and transfers. Discharge Planning was asked to evaluate the patient for possibly extended care facility for care of her injuries. The patient had steady progress while on the floor.

She was eventually discharged on 1950/95. She was discharged to a home. The patient was felt to have adequate assistance and care at home for her wounds while there. She was given instructions to follow up with a sawell as with routine trauma for further care of her multiple injuries.

At the time of discharge the patient was afebrile, she was tolerating a regular diet, and all her wounds were good. She was discharged on Bactrim for what was thought to be a urinary tract infection.

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NAME: MR#: ATTENDING: ACCOUNT #:

ADM DATE: PRO DATE: DIS DATE: VIS TYPE: 3

95

DOB: SEX: UNIT: ROOM:

DATE OF CONSULTATION: /95 CONSULTANT: M.D.

HISTORY OF PRESENT ILLNESS: This patient is a 41-year-old white female with a past history of asthma who was involved in a motor vehicle accident which was a head-on collision tonight. She was a restrained driver. She was transferred by life flight to the Hospital, for which she was seen in the trauma room by the general surgeons. Her other injuries include a scalp laceration and pneumothorax, for which a chest tube is being placed. At the time of orthopedic consultation the patient had been sedated and was able to respond to gross commands very poorly. Upper extremities were palpated at her shoulder, elbow, wrist, and finger joints. There is full range of motion in all these bilaterally. Sensation is intact in 3 nerve distributions in both hands bilaterally. She is actively able to wiggle her fingers and vaguely move her arms around. Forearm bones, humerus, and finger bones were all palpated as well, and no reproducible tenderness was elicited.

Her left leg was palpated at the hip, knee, and ankle joints and revealed no pain. She had no pain to gross palpation of her femur or tibia on the left or right. Her hip joint and her knee joint were not painful to range of motion on the right. She is unable to comply with examination. Capillary refill is less than 2 seconds in both feet. There is an approximately 8 cm laceration across the medial aspect just below her medial malleolus, which showed calcaneal bone protruding through this. Thus, it is an open fracture. The patient also has a significant amount of swelling and reproducible pain to palpation over her metatarsal base area in her left foot. The calcaneus is on the right.

X-RAYS: X-ray examination reveals her left foot has a highly come divergent type Lisfranc injury. X-ray on the right reveals a comminuted open calcaneus fracture.

IMPRESSION:

Grade II open calcaneus fracture, right foot. Divergent comminuted Lisfranc injury on her left foot.

PLAN:

CONSULTATION MEDICAL RECORD

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NAME: MR#:

ATTENDING:

ACCOUNT #:

ADM DATE:

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UNIT:

Appropriate portions of the medical record were reviewed.

Patient was interviewed and examined.

FREDRICK REEVE, M.D.

D: 195

T: 95 00:58

NAME: ATTENDING: ACCOUNT #:

ADM DATE: PRO DATE:

DIS DATE: VIS TYPE: DOB: SEX:

95

53 UNIT: ROOM:

DATE OF CONSULTATION: CONSULTANT:

HISTORY OF PRESENT ILLNESS: The patient was the reportedly the unrestrained driver involved in a head-on motor vehicle accident along with other family members apparently, all of whom were injured with a child critical. There was no reported loss of consciousness and initial Glasgow coma scale was 15. Thoracic and lumbar spine films were reportedly normal. The patient suffered right rib fractures, pulmonary contusion with reported pneumothorax seen on CT scan. She suffered an open right calcaneal fracture and left Lisfranc fracture dislocation and second metatarsal head fracture. She is now status post incision and drainage of the calcaneal. fracture and open reduction and internal fixation and external fixator fixation on the left. She is medically stable overall as she has been transferred to the floor.

The patient is quite somnolent so details of her past medical and social/functional history are not know. However, the patient was apparently fully independent.

PAST SURGICAL HISTORY:

Remarkable for cesarean section x 3.

MEDICATIONS:

None.

ALLERGIES:

No known drug allergies.

DIRECTED EXAMINATION: The patient is seen lying in bed with hips in flexed position and legs elevated. Both legs are Ace wrapped distally. There was good movement of the toes bilaterally. Sensation is intact to light in the toes and the proximal lower extremities. Reflexes are not attempted in the lower extremities. She appears to have good upper extremity strength although she is somewhat somnolent and lethargic. will be examined further when she is less somnolent.

ASSESSMENT AND PLAN: The patient is status post multiple leg fractures including a calcaneal and Lisfranc fracture dislocation. She is quite somnolent at this time. I will have physical and occupation therapy to begin working with her to mobilize her as tolerated and appropriate. I addition as there has been significant injury to her entire family and reported critical injury in a child, I will have rehab psychology see the patient as well. I suspect that she will eventually be a rehab candidate for wheelchair mobility as I suspect she will be nonweightbearing for quite some time.

Thank you very much for this consultation.



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 $^{\prime}$ Patient was interviewed and examined.

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NAME: # MR#: 95601850

ATTENDING :

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/95 **DOI**

DOB: SEX: UNIT:

ROOM:

DATE: SURGEON: ASSISTANT:

PREOPERATIVE DIAGNOSIS:



- Grade II open right calcaneus fracture.
- Left Lisfranc fracture dislocation.
- 100% displaced 2nd metatarsal head fracture.

POSTOPERATIVE DIAGNOSIS:

OPERATION:

Same.

- Irrigation and debridement of right os calcis Grade II open fracture.
- K wire fixation of right os calcis.
- Open reduction internal fixation of 2nd and 3rd tarsometatarsal joints.
- External fixation of comminuted cuboid and base of 4th and 5th metatarsal fractures.
- 5. K wire fixation of displaced 2nd metatarsal neck fracture.

ANESTHESIA:

General endotracheal.

INDICATIONS: The patient is a 41-year-old white female who was involved in a high speed head on motor vehicle accident. She was a restrained driver with a lap and a chest seat belt. She sustained a pneumothorax and right sided chest injury. She had no other obvious orthopedic injuries including normal appearing x-rays of the cervical spine, thoracolumbar and sacral spine, pelvis, hips and knees. She was ruled out for significant intra-abdominal trauma by CT and a peritoneal lavage. She was stabilized for urgent debridement and fixation of both feet.

PROCEDURE: The patient was placed on the operating table in the supine position after administration of general endotracheal anesthetic. Preoperatively, she was given gentamicin and Ancef antibiotics. Tourniquets were placed around both proximal thighs but were not inflated throughout the case. The initial case was done with a small debridement set. The fixation set was kept up separate and sterile. The left foot was covered with an impervious stockinette during the procedure for the right

BEST AVAILABLE



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The procedure on the right foot was initiated by copiously irrigating the wound initially with a 3 liter bag of normal saline. should be mentioned that during the prep procedure, the majority of the body of the os calcis including the entirely posterior facet articulation became dislodged from the fracture, fell into a puddle of iodophor scrub solution was immediately placed in a triple antibiotic solution. was then explored after the initial irrigation. There was found to be intact flexor hallucis longus, flexor digitorum longus, as well as an intact tibial nerve and tibial artery. There was noted to be a laceration disruption of one of the vena comitans which was identified and ligated. The posterior tibial tendon was also found to be intact. The open wound was then further explored. There were found to be no pathology to the undersurface of the talus. There were multiple comminuted fragments from the lateral wall and the tuberosity of the os calcis. At that point, marginal debridement of some of the skin edges was performed. There was found to be no impacted foreign bodies or dirt within the wound. Six more liters were then copiously pulselavaged. At that point antibiotic solution and pulselavage normal saline were used to further clean off the extruded large fragment of bone which was approximately 4 x 4 cm. The bone contained the entire posterior facet as mentioned and could be provisionally reduced underneath the talus. It was very difficult to tell, the relationship to the remaining comminuted medial wall and tuberosity. However, provisional fixation was provided with a K wire placed from the posterior plantar tuberosity across the large fragment and into the undersurface of the talus with excellent purchase. A fluoro scan was then used to document the position of this pin and it was found to be acceptable. At that point, a final irrigation of 1 liter of triple antibiotic solution was accomplished. The wound was then packed with a sterile 4 x 4, copious layering of fluffs and ABDs were then placed on the Webril was then placed around the foot and the foot was then isolated with a sterile draping technique to begin work on the left foot. At that point, all gowns and gloves were changed. The dirty instruments were removed from the room. The new sterile instruments were then used for the first time. At that point, the foot was able to be closed reduced but was very unstable due to the comminution. The foot was checked under the fluoro scan and there was found to be fairly concentric reduction achievable of the 2nd, 3rd, and 4th metatarsal bases on the respective cuneiform and cuboid. It was elected due to the comminution and instability to make a incision directly over the base of the 3rd metatarsal. At this point, a direct visualization of the reduction could be accomplished. Also, copious irrigation was placed into the joint space and multiple flecks of bone and cartilage were removed. The 3 joints were able to be held reduced easily with a K wire and at that point, 3.5 mm screws were placed for a stable rigid reduction. The first screw was placed from the base of the 3rd metatarsal into the intermediate cuneiform.



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In the lateral cuneiform, the base of the 2nd was then reduced into the intermediate cuneiform and a 3rd screw was placed from the lateral cuneiform to the base of the 2nd providing excellent rigidity of the midfoot. At that point, an intraoperative x-ray was obtained and showed still some comminution and malalignment and subluxation of the base of the 4th and 5th metatarsals with shortening of the lateral column. At that point, it was elected to place a mini-exfix from the anterior process of the os calcis to the shaft of the 5th metatarsal. This was accomplished with a percutaneous technique with 25 drill bit and the 3.5 mm pins. small graphite bar was then used to apply a longitudinal traction force and the bar was cinched in with the couplers in this position. Repeat AP and lateral x-rays were obtained and showed much better overall alignment with restored length of the lateral column and distraction of the compressed impacted cuboid fracture. At that point, attention was paid to the displaced 2nd metatarsal neck fracture. A small incision of 3 cm in length was made directly over the 2nd metatarsal head and neck area. fracture was then identified. A K wire was then used to enter the canal of the displaced neck fracture and the K wire was brought out retrogradely through the plantar fat pad. The K wire was then advanced antegradely holding the neck fracture in a reduced position with excellent stability. The pin was bent at a right angle and capped. The wounds were then copiously irrigated with antibiotic saline solution. The skin around the external fix pins was loosely closed with 4-0 nylon. The dorsal midfoot incision and the 2nd metatarsal incision were closed in a similar fashion with interrupted vertical mattress 4-0 nylon suture. The wounds were then dressed with Bacitracin ointment, Adaptic and 4 x 4. The foot was placed in a posterior splint in a neutral position. The patient tolerated the procedure without apparent anesthetic complications and was transported to postoperative recovery room in stable condition.





NAME: ATTENDING: ACCOUNT #:

ADM DATE: PRO DATE: DIS DATE: VIS TYPE:

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DATE: SURGEON:

ASSISTANT(S):

PREOPERATIVE DIAGNOSES:

POSTOPERATIVE DIAGNOSES:

OPERATIONS:

/95

Grade II open right os calcis fracture.

95

- 2. Left comminuted Lisfranc fracture dislocation, left
- Grade II open right os calcis fracture.
- 2. Left comminuted Lisfranc fracture dislocation, left foot.
- 1. Irrigation, debridement, sterile dressing of right Grade II open os calcis fracture.
- 2. Sterile dressing change under anesthesia of left foot.

ANESTHESIA:

General endotracheal

INDICATIONS FOR PROCEDURE: The patient is a 41-year-old white female with a history of severe open right os calcis fracture and closed leftcomminuted Lisfranc fracture dislocation sustained in a high-speed motor vehicle accident. She was initially treated with open reduction/internal fixation and external fixation of the left foot. She had a primary irrigation and debridement and temporary pinning of the right os calcis fracture. It has been elected at this point to perform a dressing change under anesthesia with repeat irrigation, debridement and postirrigation culture.

The patient was given a general endotracheal anesthetic, placed in supine position on the operating table. The dressing was removed, and the wound inspected by myself and There was noted to be no significant duskiness or lack of circulation or frank necrosis about the medial skin flap. The posterior tib. pulse was visibly palpable within the wound. There was no purulence or obvious debris within the wound.

At that point, the foot was prepped and draped in the usual fashion with



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scrubbing solution from the toes to the midcalf. At that point with no tourniquet 6 liters of pulse lavage normal saline solution were irrigated throughout the wound. Postirrigation cultures were then obtained. separate 1-liter bag of triple antibiotic solution was then irrigated throughout the wound. A Betadine-soaked sponge was then loosely packed into the open defect, and a bulky dressing placed around the foot. The foot was then placed in an AO splint in the neutral position.

At that point, the right foot dressing was removed. The wounds were inspected. There was found to be no dehiscence of the wound, no necrosis of the skin edges. There was some serous and bloody drainage around the pin sites, which was expected. The wound was then cleaned with sterile saline and redressed with a Bacitracin Ointment, Adaptic and a posterior bulky splint was then placed on the foot.

The patient tolerated the procedure without apparent complication. transported to the postoperative recovery room intubated.





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DATE: SURGEON:

PREOPERATIVE DIAGNOSIS:

Grade II open right os calcis fracture.

POSTOPERATIVE DIAGNOSIS:

Same.

OPERATION:

- Irrigation and debridement, open wound, right os calcis.
- 2. Primary subtalar arthrodesis.

INDICATION FOR PROCEDURE: The patient is a 41-year-old white female who is 6 days status post a head-on automobile collision in which she sustained rib fractures and severe bilateral foot injuries. On the right foot she sustained a Grade II open os calcis injury. She has had 2 previous irrigation debridements and a provisional reduction and fixation with a K wire. It has been elected at this point to perform a repeat irrigation and debridement and then a subtalar arthrodesis.

PROCEDURE: The patient was given a general endotracheal anesthetic, placed in the supine position on the operating table. The splint and dressing was removed. There was no purulence or erythema about the wound. A tourniquet was placed around the right proximal thigh but was not inflated throughout the case. The foot was then prepped and draped in the usual fashion from below the tourniquet to the toes, with scrub and solution. The belly was also prepped for a possible rectus free flap in the usual sterile fashion as well. At this point the wound was copiously irrigated with 3 liters of pulse lavage normal saline solution. provisional K wire was removed and discarded.

At that point the large intercalated fragment of the body and posterior facet was removed. A 3.5 mm Schanz pin was then placed in the tuberosity and a more accurate reduction was achieved of the posterior facet fragment under the remaining posterior tuberosity. The new K wire was then repositioned across the subtalar joint and an intraoperative fluoroscan was obtained and showed an excellent restoration of the height of the os calcis, with much better reduction of the posterior facet tuberosity and alignment under the posterior facet of the talus.

At that point the K wire was removed, the intercalated segment of bone was then taken off the field, and again irrigated and cleaned to soft tissues. The cartilage of the posterior facet was then removed from this fragment with a high speed burr of curettes. The surface was then perforated multiple times with a 2.5 mm drill bit through the subchondral bone.

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that point the undersurface of the talus was removed of its cartilage under direct visualization with a ring curette and rongeur. The surface of chondral bone was then perforated multiple times with a 2.5 mm drill bit and osteotome was used to fish scale the bottom as well. There was good bleeding, cancellous and subchondral bone exposed in the entire region of the posterior facet.

At that point a reduction was made with the Schanz pin as a joy stick for distraction and length. The cortex remaining from the posterior tuberosity on the intercalated fragment was used to gauge the reduction. Once the reduction had been achieved a temporary K wire was inserted and viewed under the fluoroscan in excellent position, with good reduction of the fragment. At that point the 7-0 cannulated screw guide pins were inserted and checked under the fluoroscan. It was elected at that point to obtain an AP angle and lateral angle x-ray to make certain of the position of the pins in the fragment.

The x-ray showed excellent reduction of the fracture with good position of the intercalated fragment, tuberosity, and posterior facet. The screw lengths were then measured and estimated from the length of the pin. A 75 mm and 65 mm screw were inserted after drilling and found excellent purchase and provided rock solid stability across the joint. X-rays were then obtained and showed that not all of the threads of one of the screws was across the joint. This was then changed to a 75 mm screw. Both screws had excellent purchase and stability. The K wires were then removed.

The final lateral x-ray showed containment of the screws in the body of the talus, with all threads across the intended line of arthrodesis. The wound was then irrigated, and at that point the plastic surgery team of Dr. Barm and Rigano began exploration for a possible local flap rotation, possible free flap coverage description soft tissue defect.

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ADM DATE: PRO DATE: DIS DATE:

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/53 ROOM:

DATE: SURGEON:

ASSISTANT:

PREOPERATIVE DIAGNOSIS:

POSTOPERATIVE DIAGNOSIS:

OPERATION:



Right leg open os calcis fracture with soft tissue defect.

/95

Right leg open os calcis fracture with soft tissue defect.

Right leg posterior tibial artery vessel dissection with vein anastomosis.

This is a portion of multiple surgeon procedure.

PROCEDURE: This portion of the operation was performed after Dr. Gabel performed the open reduction and fixation of the os calcis fracture. teams simultaneously operated with one team on the right leg, the other harvesting the rectus abdominis flap muscle. The right lower extremity was elevated and then the tourniquet inflated to 300 mm mercury.

Longitudinal incision was extended from just posterior to the medial malleolus proximally. Posterior tibial artery and vena comitantes were identified and were noted to be lacerated at the level of the medial malleolus, and there were fragments of bone posteriorly. This was debrided. Dissection was carried proximally for about 15 cm. There was no flaw in the distal portion of the posterior tibial artery. Posterior tibial nerve was intact, and posterior tibial tendon was intact.

About 15 cm proximal to the medial malleolus, the posterior tibial artery was noted to have a good pulse; and there were perforators coming off from At this level, microvascular dissection was used to isolate the posterior tibial artery and the veins. The artery was in good condition. Adventitia was stripped off from the artery.

At this point the microscope was brought into the field, and adventitia was stripped from around the artery. The deeper vein was isolated. Superficial vein was also isolated just anterior to the medial malleolus along with the saphenous vein. At this point in time, the rectus abdominis muscle was brought into the field, and end-to-side anastomosis from the posterior tibial artery to the rectus abdominis inferior epigastric was performed with 9-0 interrupted Ethilon. A 2.0 MMM vessel cupula was used



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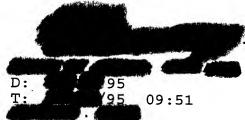
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ROOM:

to perform an end-to-end anastomosis on the vein at this level. Second venous anastomosis was done end-to-end distally using 9-0 Ethilon.



HOSPITAL

MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

PATIENT NAME

MEDICAL IMAGING #

STATION OR BED #

ETR

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

VISIT TYPE

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ACCT #

DATE OF BIRTH

SEX

DATE OF PROCEDURE

1995

CERVICAL SPINE (THREE VIEWS):

There is a density projected just posterior to the spinous process of C2. This is probably artifactual. A nasogastric tube is noted anteriorly. There is no evidence of acute fracture or subluxation.

CHEST PORTABLE VIEW 9:45 PM:

The nasogastric tube is seen passing into the stomach. There is a contusion or infiltrate in the right lung base. There is a small right pleural effusion: No definite pneumothorax is seen. There are right sided rib fractures laterally involving at least the six, seventh and possibly the eighth right ribs. The mediastinum is not significantly widened.

PORTABLE AP VIEW OF THE PELVIS 9:45 PM:

There is contrast in the urinary tract. No definite fracture or dislocation is present.

DORSAL SPINE (AP AND LATERAL VIEWS):

There is no acute fracture or subluxation. Note is made of right sided rib fractures.

LUMBAR SPINE (AP AND LATERAL VIEWS):

There is lipping of the anterior vertebral body of L2. This may represent a small compression fracture. Remaining levels appear normal. There is mild scoliosis with a convex curvature to the left. Note is made of contrast within the kidneys which appear to function bilaterally.

IMPRESSION:

POSSIBLE COMPRESSION OF L2 WITHOUT SIGNIFICANT SUBLUXATION OR CANAL STENOSIS.

PORTABLE CHEST 9:45 PM:

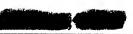
There is increased density in the right lung base which is consistent with a pulmonary contusion. The nasogastric tube is in the stomach. There is no definite pneumothorax. Multiple right lateral rib fractures are again noted. There is no The mediastinum soft tissue shadow is no wider, but there is some indistinctness on the right side laterally which may represent some mediastinal hematoma. Clinical correlation is recommended.

CONTINUED





HOSPITAL



MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

PATIENT NAME

MEDICAL IMAGING #

STATION OR BED #

ATTENDING PHYSICIAN

REOUESTING PHYSICIAN

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DATE OF BIRTH 53

SEX

DATE OF PROCEDURE

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1995

LEFT ANKLE:

The distal tibia and fibula as well as the talus appear to be intact. There is some irregularity of the base of the fifth metatarsal. If there is any clinical ... suspicion for a fracture of the fifth metatarsal base, a foot film would be recommended.

RIGHT TIBIA AND FIBULA:

The tibia and fibula are intact. There is a comminuted fracture of the calcaneus noted.

RIGHT KNEE:

Lateral film is offset, but there is no acute fracture or dislocation.

RIGHT ANKLE 9:45 PM:

There is a severe comminuted fracture of the calcaneus. This involves the mid and anterior portions of the calcaneus. There is a large bony fragment displaced inferiorly. Multiple small fragments are present laterally as well. The distal tibia and fibula appear intact. The talus appears intact as well. The sustentaculum tali is affected by the comminuted fracture.

IMPRESSION:

COMMINUTED FRACTURE OF THE CALCANEUS.

LEFT FOOT:

There is a severe fracture of the tarsal metatarsal joints. The first and second tarsal metatarsal joints appear intact. There are fracture-dislocations of the third, fourth and fifth tarsal metatarsal joints with lateral displacement of the metatarsal. There is also a fracture of the heads of the second and third metatarsals. The talus and calcaneus appear intact. The navicular bone appears intact as well. There is a comminuted fracture of the lateral cuboid.

IMPRESSION:

SEVERE FRACTURE-DISLOCATION OF THE THIRD, FOURTH AND FIFTH TARSAL METATARSAL JOINTS WITH FRACTURES OF THE SECOND AND THIRD METATARSAL HEADS.

CONTINUED









MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

PATIENT NAME MEDICAL IMAGING #

STATION OR BED #

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ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

VISIT TYPE

UNIT

ACCT #

DATE OF BIRTH

SEX

DATE OF PROCEDURE

1995

PAGE 3

1995

PORTABLE CHEST 11:00 PM:

The pulmonary contusion on the right side is again noted and not significantly changed. Again, there is note made of the multiple right sided rib fractures which involve the fifth, sixth, seventh, eighth and ninth ribs. There is a small lateral pneumothorax. The left lung remains clear. The mediastinum does not appear widened.

PORTABLE CHEST 11:45 PM:

There has been insertion of a right sided chest tube. There is a right pneumothorax which has increased in size. The right sided rib fractures are again noted involving the fifth through ninth ribs. The contusion in the right lung is unchanged. The left lung remains clear.

W. _____

D:

T: (5:11)

CMC



HOSPITAL



MEDICAL IMAGING DEPARTMENT CT SCAN REPORT

PATIENT NAME

MEDICAL IMAGING #

STATION OR BED.

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

VISIT TYPE

UNIT

ACCT #

DATE OF BIRTH

SEX

DATE OF PROCEDURE

1995

M.D.

CT SCAN OF THE ABDOMEN WITH CONTRAST: CT SCAN OF THE PELVIS WITH CONTRAST:

There is a small right pneumothorax. Right basilar rib fractures are noted. There is an area of pulmonary contusion at the right base. Small pleural effusions are present as well. Below the diaphragm, there is a moderate amount of peritoneal fluid. Most of the fluid is present in the pelvis. This fluid has a uniform low density. Has the patient had a peritoneal lavage performed? If the lavage has been performed, this would explain the fluid, but if no lavage was performed, a hemoperitoneum must be excluded. There is a small cyst in the right lobe of the liver anteriorly and a two other smaller cysts in the lower right lobe of the liver. Otherwise the liver and spleen are normal. The kidneys function bilaterally and appear normal. The adrenal glands are normal. The pancreas is unremarkable. There is no free abdominal air. There is some prominence of the uterus with areas of low density suggesting uterine fibroid disease.

IMPRESSION:

- 1. RIGHT LOWER CHEST TRAUMATIC CHANGES WITH SMALL RIGHT PNEUMOTHORAX, RIGHT RIB FRACTURES, RIGHT PULMONARY CONTUSION, AND ATELECTASIS AND PLEURAL FLUID.
- 2. PERITONEAL FLUID. IF THE PATIENT HAS HAD A PERITONEAL LAVAGE, THIS WOULD EXPLAIN THE FLUID, ESPECIALLY IN THE PELVIS. IF NO LAVAGE HAS BEEN PERFORMED, A HEMOPERITONEUM MUST BE EXCLUDED.
- 3. HEPATIC CYSTS.
- 4. NO EVIDENCE OF SOLID ABDOMINAL ORGAN INJURY.
- 5. PROMINENT UTERUS WITH AREAS OF LOW DENSITY SUGGESTING UTERINE FIBROIDS.

W. D: T: //95 (5:13) cmc



HOSPITAL



MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

PATIENT NAME

MEDICAL IMAGING #

STATION OR BED#

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ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

VISIT TYPE

UNIT ACCT #

DATE OF BIRTH

SEX

DATE OF PROCEDURE



1995

LEFT FOOT (PORTABLE AP AND LATERAL VIEWS IN SURGERY) 3:00 AM:

A pin has been placed through the fracture of the second metatarsal head. Screws have been placed affixing the tarsal metatarsal joints with good alignment of the tarsal metatarsal joints. On this film, note is made of a comminuted fracture of the cuboid. The fractures of the bases of the third and fourth metatarsals are also noted.

LEFT FOOT (TWO VIEWS IN SURGERY) 3:45 AM:

Comparison: Same day, 3:00 AM.

In addition to the aforementioned pins and screws, two external fixation screws have been placed, one in the lateral calcaneus and one into the fourth metatarsal. Alignment of the tarsal metatarsal joints as well as the second metatarsal head fracture appears satisfactory.

PORTABLE CHEST 6:00 AM:

There has been insertion of a right sided chest tube. The right pneumothorax is no longer seen. Note again is made of the multiple right rib fractures. The pulmonary contusion on the right side is somewhat smaller. There are small pleural effusions and there is atelectasis in the bases. No other infiltrates are present.

W. ______

T: (5:12)

cmc





HOSPITAL -



MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

PATIENT NAME

MEDICAL IMAGING #

STATION OR BED #

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

VISIT TYPE

UNIT ACCT #

DATE OF BIRTH -53

SEX

DATE OF PROCEDURE



1995

PORTABLE CHEST (7:00 AM):

Comparison: ____95.



The pulmonary contusion on the right side is unchanged. There is increased atelectasis or infiltrate at the left base. There is also increase in the bilateral pleural effusions. The multiple right sided rib fractures are again noted. There is no definite right sided pneumothorax.

W. D:

T:/95 (10:24)

gk







MEDICAL IMAGING #

STATION OR BED #

ATTENDING PHYSICIAN M.D.

REQUESTING PHYSICIAN

MEDICAL RECORD #

VISIT TYPE

UNIT

ACCT #

DATE OF BIRTH

SEX

DATE OF PROCEDURE



PATIENT NAME

1995

PORTABLE CHEST (7:00 AM):

Compared to the previous day, chest tube remains in the same location. There is no pneumothorax. Still, bilateral basilar alveolar densities, which are mostly of atelectatic nature, are noted, however in the left base the possibility of pneumonic infiltration is questioned. Old fractured ribs on the right side is noted again.

M. D: /95

T: /95 (8:57)

gs

PATIENT NAME

MEDICAL IMAGING #
BD: 53

MEDICAL IMAGING REPORT

STATION OR BED

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

, 1995

PORTABLE CHEST: 6:00 a.m.

The examination is compared to one performed yesterday.

The right chest tube remains in place. The obscuring at the left base remains about the same as was seen yesterday. The right-sided fractured ribs are still seen. There is no real pneumothorax.

IMPRESSION:

OBSCURING AT THE LEFT SIDE BY FLUID-ATELECTASIS REMAINS ABOUT THE SAME. THE CHEST IS UNCHANGED FROM THE EARLIER EXAMINATION PERFORMED YESTERDAY.



PATENT NAME

MEDICAL IMAGING REPORT

MEDICAL IMAGING REPORT

MED. REC. NO. STATION OR BED

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

ADDITIONAL REPORT TO:

1995

PORTABLE CHEST:

Comparison 2/25 earlier.

Endotracheal tube in good position. Right subclavian catheter in SVC. Right chest tube in place. Interstitial and alveolar filling process is seen bilaterally, probably representing a combination of atelectatis and contusion, appearing unchanged from the previous examination allowing for technique. Multiple right rib fractures are again seen.

1995

PORTABLE CHEST (7:00 A.M.):

Comparison 2/25.

Tube and catheter position is similar. Infiltrative density is again seen bilaterally representing a combination of atelectatis and contusion, appears slightly worse only on a technical basis.

| | | MEDICAL | IMAG | ING | REPORT |
|---------------------|----------------------|---------------|----------------|------------|--------|
| PATIENT NAME | MEDICAL IMAGING NO. | MED. REC. NO. | | STATION OR | |
| ATTENDING PHYSICIAN | REQUESTING PHYSICIAN | AC | DITIONAL REPOR | RT TO: | |



1995

INTRAOPERATIVE RIGHT ANKLE:

Intraoperative AP and lateral views were obtained at 9:30 a.m., 9:45 a.m. and 10:30 a.m., and demonstrate a fracture of the calcanceus with placement of K-wires through the heel and traversing the subtalar joint with subsequent placement over the wires of screws for arthrodesis and fixation of the calcaneal fracture.

1995

PURTABLE CHEST (6:00 A.M.):

Comparison is made with \$35.

Indication: Multiple trauma.

A single right-sided chest tube is seen in place with mild atelectatic densities and lateral pleural thickening associated with the tube placement and multiple rib fractures. Predominantly lower lung field parenchymal densities and perhaps a small pleural effusion is seen on the left. The right subclavian line is unchanged in position. Overall the appearance is stable compared to the prior study. No definite new abnormalities are seen.



MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

| PATIENT NAME | | MEDICAL IMAGING # | | STATION OR BED # | |
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| ATTENDING PHY | G PHYSICIAN REQUESTING PHYSICIAN | | HYSICIAN | MEDICAL RECORD # | |
| VISIT TYPE | UNIT | ACCT # | DATE OF BIRTH | SEX | |

DATE OF PROCEDURE



1995

AP PORTABLE CHEST (11:40 AM):

Comparison is made to 95. The right sided chest tube has been removed since the previous film. No pneumothorax is identified. A right sided subclavian central venous catheter is now located slightly higher within the superior vena cava, but remains in satisfactory position. Multiple right sided rib fractures are again noted. There is localized pleural thickening or loculated pleural fluid along the right lower lateral chest wall. There are hazy bilateral pulmonary infiltrates in both perihilar areas. There is also hazy left basal increased density, probably related to some pleural fluid in this area as well. No other significant abnormalities are noted and there has been no significant change since the previous day.



AP PORTABLE CHEST:

Comparison is made to -95. The right subclavian central venous catheter appears unchanged in position. Multiple right sided rib fractures are again noted with adjacent pleural thickening or loculated pleural fluid. Bilateral pulmonary infiltrates and hazy left basal pleural fluid are also again noted. The overall appearance of the chest has not changed significantly since the previous day.

BEST AVAILABLE

MEDICAL IMAGING REPORT STATION OR BED

ATIENT NAME TTENDING PHYSICIAN MEDICAL IMAGING NO. 53 REQUESTING PHYSICIAN MED. REC. NO.

ADDITIONAL REPORT TO:

1995

CHEST (PORTABLE) 7:00 A.M.:

Comparison: 95.

The left lower lobe infiltrate or contusion and left pleural effusion are unchanged. There are multiple right-sided rib fractures with the right pleural effusion being unchanged as well. There is minor atelectasis in the right base. The central venous line is unchanged in position.



MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

| PATIENT NAME | | MEDICAL IMAGING # REQUESTING PHYSICIAN | | STATION OR BED # |
|---------------|--------|---|---------------|------------------|
| ATTENDING PHY | SICIAN | | | MEDICAL RECORD # |
| VISIT TYPE | UNIT | ACCT # | DATE OF BIRTH | SEX |

DATE OF PROCEDURE



1995

PORTABLE CHEST 7:00 AM:

Provided history: Multiple trauma.

A single portable view of the chest is compared to the previous portable study dated \$65. A right subclavian catheter remains in place with the tip in the region of the superior vena cava. There is persistent hazy opacification of the left lower lung which in part may represent a layering left effusion. There are multiple right rib fractures with hazy opacification at the right lung base which may represent pleural reaction and/or pleural effusion.

IMPRESSION:

1. OVERALL, NO SIGNIFICANT INTERVAL CHANGE.

MEDICAL IMAGING REPORT

PATIENT NAME 53

REQUESTING PHYSICIAN

ADDITIONAL REPORT TO:

1995

RIGHT FOOT (THREE VIEWS):

Comparison -1995.

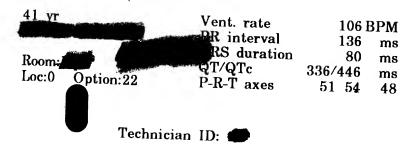
Plaster cast is identified in place. Two orthopedic screws are fixing a comminuted mid and proximal os calcis fracture while some bony detail is limited, as is visualization of the subtalar joint. Overall alignment appears preserved and relatively anatomic.

STABLE APPEARANCE OF COMMINUTED OS CALCIS FRACTURE. NO EVIDENCE FOR PROSTHESIS LOOSENING OR MALPOSITION.

LEFT FOOT (TWO VIEWS):

Comparison -1995.

Screw fixation at the site of tarsal/metatarsal fracture dislocation is identified. There is also wire fixation through the second metatarsal. Overall alignment appears anatomic. Also, presence of the cast limits evaluation. The third through fifth tarsal/metatarsal joints are not well demonstrated, but again overall alignment appears essentially anatomic.



Meds: Unknown

SINUS TACHYCARDIA

INCREASED R/S RATIO IN V1 CONSIDER TRUE POSTERIOR

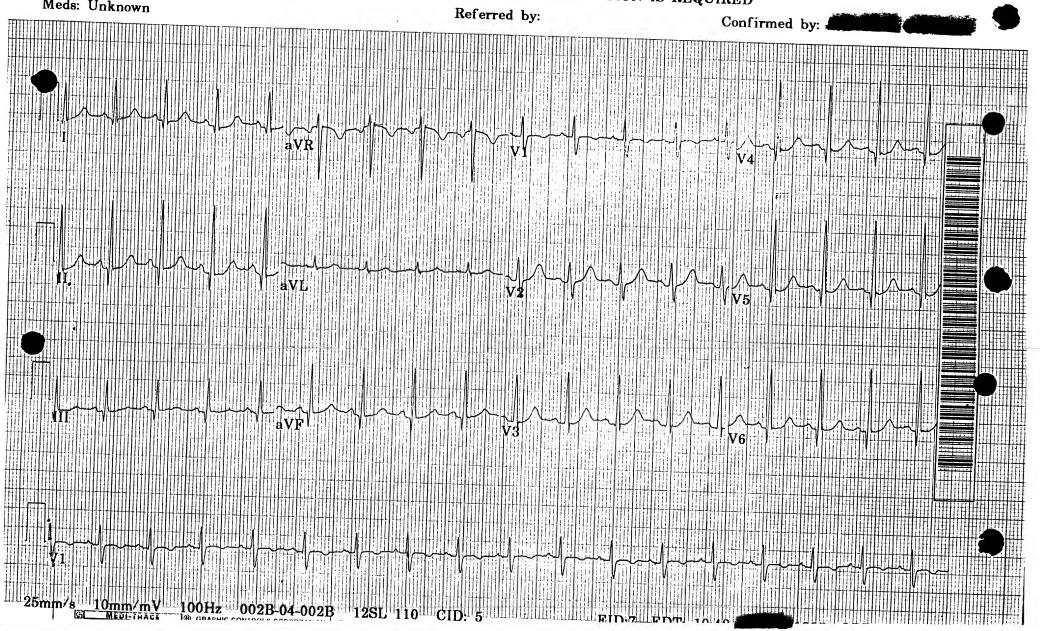
INFARCTION

CANNOT RULE OUT INFEROLATERAL INFARCTION, AGE

UNDETERMINED

NO PREVIOUS TRACINGS FOR COMPARISON

CLINICAL CORRELATION IS REQUIRED



41 yr Vent. rate 95 BPM NORMAL SINUS RHYTHM Female Caucasian PR interval ms NORMAL ECG **QRS** duration ms SIMILAR TO PREVIOUS TRACING Room QT/QTc 336/422 ms Loc:1 Option:30 P-R-T axes 59 50 47 Technician ID: Referred by: Meds: Unknown Confirmed by:

| adm 195 |
|--|
| Date Referred:95 6.00 pm; Evaluation Date:195 |
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| Palpation |
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| VISION ALASSES | NON-FUNCTIONAL |
| HEARING WFU | GROSS FUNCTIONAL |
| PATIENT/SIGNIFICANT OTHER'S STATED GOAL(S): | FUNCTIONAL ASSIST |
| | FUNCTIONAL & |
| AFFERENCE CATEGORIES | TRUNK BALANCE (\$) 65 5 1+ |
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| PROM LEFT AROM L | HEAD CONTROL WFL |
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| Re-evaluation due: | | * Re-evalue | ition * | | |
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| DATE | 195 | 95 | 2 95 | 95 | -95 |
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| SUBJECTIVE | doring in both | buen on hild 7/15 | IND CONVICT | difficulty | 4010.1. |
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| DATE | - 95 | 195 | -95 | -95 | -49-95 |
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| Time in Treatment | 15/0/18 | Ø 13D | 30 | is | 45 |
| Treatment Plan | 1719 | 7 100 | | 11 | 1 170 |
| SUBJECTIVE | ptupin crain this P.m. contable inchain | pt getting Baren | Husbard Present for Rx. | \$ family ERRORVT | |
| GOALS/TREATMENT | B5 | BS 00.T. | Bs | B5 | 35 7 dup |
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| * | ticout P.M. | A: tol Rxwell Lbab 3-4 hold 20-to NWB Status P: Cont Lbab Updated. | A: tol Kxwell P: Will teach P: Will teach | A: Pt doing Very Will Progressing P: Conti | step to him |
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RIO: OT PT RT ST Progress Notes

| | Re-evaluation due: | | | | | |
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| | DATE | 195 | 95 | 195 | 195 | 195 |
| | Time in Treatment | 30' | 451/30 | 301 | 30' | 30! |
| | Treatment Plan | ADL | | | | Discharge |
| | SUBJECTIVE | Refundled Chart Rev. med Goalsdiscussed | 1 | J'd like to stay up for awhile | Pt tearful when talking about ver deuighter. | |
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| , , | -con reeds | | Bedact(3) Vêdres 5 (5) Dalancequed Danced Parts(3) | Mach 10 Page | | bod-voic ordered for home Cogn+UE is FL |
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| DATE | -95 | j | | | |
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| Time in Treatment | 15/15 | | | | - |
| Treatment Plan | DIC Summan | 3 | . / | | |
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| GOALS/TREATMENT | Ressiers | | | | |
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| Therapist | | | | | |
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Signature

OT OT PT ST Brogress Notes

MEDICAL RELEASE

| I, hereby authorize |
|--|
| (Patient or Legal Guardian) |
| , to release to the Accident Research Group of (Physician or Hospital) |
| Calspan Corporation, Buffalo, New York, any and all information (including x-rays and |
| radiologists reports) pertaining to the nature and extent of injuries sustained by |
| in a motor vehicle accident which occurred on (Patient) |
| (Date) |
| I understand that this information is to be used solely for the purpose of safety research that |
| is sponsored by the U.S. Department of Transportation (National Highway Traffic Safety |
| Administration) in Washington, D.C. The study focuses on the relationship between automotive |
| interior design, occupant restraint systems, and occupant injuries. The name of the patient and |
| family will not be used to identify the materials contained in this case. FS FS FS FS FS FS FS FS FS F |
| (Date) (Patient of Guardian Signature) |
| D PEDS D X RAY D PEDS D ORTHO D Surg D OTHER |

| TIENT'S LAST NAME | FIRST NAME | MIDDLE NAME | ROOM & BED NO. | MED. RECORD NO. |
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| Dr. | | | COUNTY OF RESIDENCE | |
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PATIENT NAME:

MR#:

is 4.

DATE ADMITTED:

ATTENDING PHYSICIAN:

ATTENDING RESIDENT:

HISTORY OF PRESENT ILLNESS:

This is a 7 year old white
female who was an unrestrained passenger in the back seat of a car. She
was allegedly thrown from the car. I am unsure if the window was open
or closed. The patient was found down at the scene.

PAST MEDICAL HISTORY: Not obtainable as there are currently no family members available. The parents were apparently taken to Miami Valley as they were involved in the trauma as well.

PHYSICAL EXAMINATION:

Blood pressure 100/70, pulse VITAL SIGNS--130, temperature 37.0°, respiratory rate - patient paralyzed. There is a large laceration on HEENT--There appears to be a skull fracture palpable and questionable brain matter in the laceration that may be fat. patient has deviation of her eyes to the left. Pupils are 3 mm and initially reactive before paralyzation. Nose patent. There is a missing tooth in the lower bridge of teeth. On throat exam, trachea is midline. There are palpable pulses. Regular rate and rhythm. HEART--She has slightly decreased LUNGS-breath sounds on the right side compared to the left. Soft, non-distended. ABDOMEN--Rock is negative. PELVIS--No noticeable injuries. EXTREMITIES--Pending. RECTAL--Cranial nerves are not **NEUROLOGIC-**assessable as the patient is having decorticate posturing and deviation of the eyes to the left. She has minimally reactive

LABORATORY DATA:

remainder of lab is pending. Chest x-ray revealed a tooth in the carina. Cervical spine is negative. AP and lateral thoracolumbar spine films are negative. Pelvis is negative. CT of the head revealed multiple skull fractures, diffuse punctate contusions, multiple small right intracranial hemorrhages, small right parietal subdural hematoma, positive midline shift, cisterns open, and ventricles are noted to be small. CT of the abdomen is pending. The remainder of labs are pending.

pupils which are 3 mm. The patient is unresponsive. Glasgow coma scale

ASSESSMENT AND PLAN:

of Mannitol. An NG was placed and patient was intubated. She was reintubated with a cuffed tube when able. A Foley was placed. The patient is being hyperventilated. Fluids are currently being given as patient needs as well as patient receiving a couple of units of blood. The patient was discussed with the patient will need ICP monitoring, Swan-Ganz catheter, and may need bronchoscopy. The patient is seen with

DATE ADMITTED:
DATE DISCHARGED:
ATTENDING PHYSICIAN:
ATTENDING RESIDENT:
PRIVATE PHYSICIAN:

ADMITTING DIAGNOSIS:

Open head injury.

DISCHARGE DIAGNOSIS:

-Open head injury.
-Chronic vegetative state.

PROCEDURES:

-95

-95 - Rigid bronchoscopy.

Bilateral Craniectomy, debridement of necrotic herniated cerebral tissue and placement of Camino intracranial

pressure monitor.

-95 - Tracheostomy and gastrostomy placement.

who was the unrestrained passenger in a motor vehicle involved in a high speed head on collision. At the scene, she was evaluated by a physician who was riding with the squad and was unresponsive and exhibiting decerebrate posturing. She was extracted from the automobile and intubation was attempted which was unsuccessful. Upon her arrival at in the late night hours of 1995 she was at that time successfully intubated. She had sluggish pupillary reflexes. The eyes were deviated to the left. There was a large scalp laceration which extended across the midline with exposed skull and obvious fracture. No cerebral tissue was visualized at that time. There were several broken teeth and no obvious injuries to the chest, abdomen, pelvis or extremities.

HOSPITAL COURSE: When the patient was seen by neurosurgery, she had been pharmacologically paralyzed for her intubation and had been taken to the CT scanner. At that time she was hypotensive with systolic blood pressures in the 50s. A brief examination was performed while she was still on the scanner. large scalp laceration which was partially covered by bandages, the full extent could not be appreciated at that time. There did not appear to be any acute bleeding from that area. However, the dressings were saturated. The paralytic agents were wearing off, she was not moving spontaneously. There was no response to corneal stimulation. no gag. There was no response to deep noxious stimuli in the midline. There was no response to nail bed crush and neither hand and no response in the right foot. In the left foot to nail bed pressure there was nonspecific movement in the toes. She was areflexic and the toes were none responding at this time. The cervical spine studies were reviewed The head CT scan demonstrated a and did not show any obvious injury.

skull fracture extending bilaterally that was widely diastatic but only minimally depressed, however. There was a hematoma in the right parietal lobe consistent with laceration of the dura and the cerebral tissue directly below the fracture suggesting that the fracture edge had initially been pushed into the brain tissue. The hemorrhage continued to a depth of approximately 2.5 cm on the CT scan. There was a very small subdural hematoma on the right side which was at its greatest extent at the most 7 mm thick and it was not causing any significant mass effect. There were a number of small punctate contusions throughout both hemispheres basal ganglia and brain stem. The ventricles were very small the ambient cisterns were still present although there were some asymmetry of the lateral recess of the ambient cistern on the right side. The fourth ventricle was open and the basilar cisterns were open.

The patient's Glasgow coma scale on arrival was four and she was initially taken to the ICU where our plans were to irrigate and close the scalp laceration and placed a communal ICP monitor for conservative management of her posttraumatic brain swelling. However on taking down the dressings, we encountered a considerable quantity of necrotic herniated cerebral tissue which had not been present when she arrived in the emergency room which suggested an evolving process with the swelling. Therefore, she was taken emergently to the operating room and the laceration was extended on both sides and the fracture pieces were debrided as was the necrotic brain tissue. Again, a significant quantity of tissue was encountered in the subgaleal space.

Once the tissue had been removed the dural edges were inspected in the area of the fracture on the right side. The dura was lacerated and shredded into several pieces it could not be primarily repaired and because of this being an open injury we felt performing a duraplasty at this time would be unadvisable because of the infection risk. After the craniectomy, the tissue appeared to be relatively flat and there was no ongoing herniation of tissue. At that point, the wound was closed primarily with the bone fragments left out leaving a large bilateral decompressive craniectomy.

An ICP Monitor was placed and the intracranial pressure was noted to be 13 mmHg of Mercury, this with hyperventilation being maintained. From there, she was taken directly to CT scan and this study demonstrated that ventricles and cisterns were considerably more patent. There was hemorrhagic contusion in the area of the herniated brain but no mass effect. The small subdural that had been present previously was not appreciable.

The patient was admitted to the and maintained with hyperventilation and osmotic agents as well as pressors to maintain adequate cerebral

The first two days the ICP's ranged from the 20 to profusion pressures. 30 range and cerebral profusion pressures were tenuous but could generally be maintained in the 50s. As time progressed, the intracranial pressure became more easily managed and the cerebral profusion pressures came up and we were able to wean the Nembutal and ' Dopamine and then eventually wean hyperventilation and the Mannitol while maintain excellent intracranial pressures. The patient's ICP monitor was removed on the third of March during the proceeding 24 hours her ICP had ranged from 7 to 13 and her cerebral profusion pressure 56 A CT scan that same day demonstrated that she had resolved the There was still an area of rather small punctate contusions. significant cephalomalacia on the right posterior frontal and parietal area and a small area of edema in the left frontal region. there was no mass effect. The intrahemispheric fissure was open. Sylvian fissures were open. The ventricles were of normal size and configuration. The basilar cisterns and ambient cisterns were all normal in appearance.

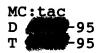
The patient remained in coma vigil. She became markedly hypotonic especially of the lower extremities and could not be maintained with splints and was begun with serial The patient was maintained on Claforan' and Clindamycin for aspiration. She had had significant aspiration with collapse of the right lung at the time of her presentation and during the same anesthetic as her intracranial procedure was performed she underwent rigid bronchoscopy for removal of large food particles from the right bronchial tree. Despite this, all of her cultures remained negative with exception of normal Flora and colonization with Staph. continued to have fevers associated with tachycardia, tachypnea, diaphoresis, increasing tone and it was felt to be consistent with anergic storming. This responded well to doses of Thorazine and she was placed on Clonidine patch which significantly decreased the frequency and severity of these spells as well. Because she was not becoming responsive and remaining in a coma vigil, she underwent placement of a G-tube and tracheostomy which she tolerated well. The tracheostomy was changed on postoperative day five from that procedure.

Other problems encountered during her hospitalization was hyponatremia not associated with diabetes insipidus and this was treated with increase of free water in her tube feeds and she responded well with that.

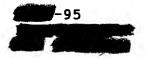
DISCHARGE PLAN:

day #20. She remains in coma vigil, but has long alert periods and we are very hopeful that she will regain responsiveness and interaction with outside stimuli. She has a G-tube and tracheostomy in place and has casts on both lower extremities which should be changed weekly. Her current medications are Zantac 50 mg b.i.d., Catapres TTS-1 patch replace every 7 days, Thorazine 10 mg every 6 hours p.r.n. basis. Her

tube feeds are Traumacal 0.5 strength at 125 cc per hour. At the time of her discharge her electrolytes: Sodium 147, potassium 3.7, chloride 107, Bicarb 25.6, BUN 22, Creatinine 0.5 and glucose 135. Her hemoglobin and hematocrit are 12.8 and 38.0 respectively, platelet count is 467,000, white count is 14.2 with 67% segs, 6% bands, 16% lymphs, 8% monocytes and 3 eosinophils. Blood cultures, sputum cultures and urine cultures are no growth at this time. She has a large craniectomy defect and we anticipate repairing this with Titanium Methylmethacrylate cranioplasty in 6 to 12 months. There is a resolving subgaleal hematoma.



DATE OF CONSULTATION: REQUESTING PHYSICIAN: CONSULTING PHYSICIAN:



Was an unrestrained occupant in the back seat in a vehicle involved in a high speed head on collision. She was catapulted through the front window and found outside the car by the emergency medical personnel with bilateral spontaneous decerebrate posturing. She was brought to where she was noted to still be posturing and she was paralyzed and intubated. She was sent for CT scan after her initial evaluation by the trauma team. A neurosurgical consultation was requested as the patient was being sent for CT scan. On my arrival here, the patient was in the CT scanner. She was hypotensive with systolic blood pressures in the 50's.

The patient was briefly examined **NEUROSURGICAL EVALUATION:** between radiographic studies. The examination revealed a large scalp laceration which is partially covered by bandages, so full extent cannot be appreciated. There does not appear to be any actual bleeding from this at the moment. However, the dressings are significantly saturated The child is no longer paralyzed, but is not moving. She is being hyperventilated, but despite vigorous efforts, the PCO2 at this time is 37. On 100% FIO2, the PAO2 is 139. The pupils are 2.5 mm bilaterally and non-reactive. There is a piece of glass embedded in the center of the left cornea and a horizontal abrasion across the middle of the right cornea. There is no response to corneal stimulation. cannot check oculocephalics at this time. There is no gag reflex. There is no response to deep noxious stimuli in the midline. no response to nail bed crush on either hand or in the right foot. There is some non-specific movement of the toes in the left foot with nail bed pressure. There was no response to arterial punctures. are no elicited reflexes or Babinskis at this time.

The cervical spine studies are reviewed and the odontoid is of limited quality secondary to overlay of the teeth. However, the AP and lateral cervical, thoracic, and lumbosacral spine show no evidence of fracture, dislocation, or soft tissue injury.

The head CT scan demonstrates a minimally depressed skull fracture extending biparietally, but more extensively down the right side than the left. As it crosses the sagittal suture, that suture is diastatic. It is not associated with an epidural hematoma. There is a small subdural hematoma on the right side

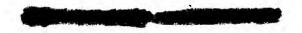
measuring approximately 7 mm in its thickness, but not causing significant mass effect at this point. There is a contusion underlying the fracture line which has a linear appearance suggesting a cortical laceration and possibly a dural laceration as well. There are multiple small punctate contusions throughout both hemispheres, basal ganglia, and brainstem. They are more concentrated on the centrum semiovale. The ventricles are very small, but the ambient cisterns are open at this time although there is some asymmetry of the lateral recesses of the ambient cistern with the right side being somewhat deformed. The fourth ventricle is open. The basilar cisterns are open.

Severe head injury with skull IMPRESSION: fracture, multiple contusions, and subdural hematoma. There is midline shift, but it seems to be more associated with the multiple contusions rather than the subdural hematoma. The Glasgow coma scale is 4 and she gets a sole point for the decerebrate posturing at presentation. prognosis for his head injury is very poor. I think that attempts to evacuate the small subdural hematoma at this time would result in more harm than benefit. We would recommend not taking her to the operating room and subjecting her to a general anesthetic. I suspect that her hypotension currently is secondary to blood loss, and we would recommend giving her colloid until blood is available and then transfusing her empirically. We would like to place a Camino ICP monitor and will plan on aggressive management with hyperventilation and osmotic diuretics and possibly inotrope and pressor therapy if required. We will debride the laceration at the bedside and perform a primary closure. If at some time the child returns to the operating room and it is felt that further debridement is required, it can be done at that time. A follow-up head CT should be obtained in six hours or sooner should there be any abrupt changes in the intracranial pressure. There is a good likelihood that the subdural may enlarge, the contusions may enlarge, or she may develop a bone edge epidural hematoma which will require surgical evacuation. We will be prepared to do that should those problems occur. Otherwise, our recommendation would be to manage her with aggressive medical interventions.

ADDENDUM:

scanner and a more thorough examination can be performed. The bandages over the head are taken down and there is a large open scalp laceration extending biparietally. There is herniation of brain tissue through the associated fracture.

This child will need surgical debridement and repair of the dural laceration. Our plan will be to leave the bone out and hopefully we will be able to achieve adequate



PATIENT NAME:

MR#:

dural closure. We will need to see at the time of surgery whether or not the subdural can be removed to any benefit to the patient without resulting in more significant loss of cerebral tissue.

| CONSULTATION TO: |
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| REQUESTED BY: (SERVICE OR PHYSICIAN) |
| DATE OF REQUEST: |
| CHECK APPROPRIATE BOX: CONSULTATION ONLY: CONSULT AND FOLLOW |
| DIAGNOSIS AND INFORMATION DESIRED: |
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| CONSULTATION REPORT |

MEDICAL INCLINE

PATIENT NAME

MEDICAL IMAGING #
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MEDICAL IMAGING REPORT
STATION OR BED

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

PORTABLE CHEST: 6:00 a.m.

The examination is compared to one performed yesterday.

The right chest tube remains in place. The obscuring at the left base remains about the same as was seen yesterday. The right-sided fractured ribs are still seen. There is no real pneumothorax.

IMPRESSION:

OBSCURING AT THE LEFT SIDE BY FLUID-ATELECTASIS REMAINS ABOUT THE SAME. THE CHEST IS UNCHANGED FROM THE EARLIER EXAMINATION PERFORMED YESTERDAY.

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PORTABLE CHEST:

Comparison earlier.

Endotracheal tube in good position. Right subclavian catheter in SVC. Right chest tube in place. Interstitial and alveolar filling process is seen bilaterally, probably representing a combination of atelectatis and contusion, appearing unchanged from the previous examination allowing for technique. Multiple right rib fractures are again seen.

PORTABLE CHEST (7:00 A.M.):

Comparison .

Tube and catheter position is similar. Infiltrative density is again seen bilaterally representing a combination of atelectatis and contusion, appears slightly worse only on a technical basis.

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| PATIENT NAME | MEDICAL IMAGING NO. | MED. REC. NO. | STATION OR | |
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INTRAOPERATIVE RIGHT ANKLE:

Intraoperative AP and lateral views were obtained at 9:30 a.m., 9:45 a.m. and 10:30 a.m., and demonstrate a fracture of the calcanceus with placement of K-wires through the heel and traversing the subtalar joint with subsequent placement over the wires of screws for arthrodesis and fixation of the calcaneal fracture.

PORTABLE CHEST (6:00 A.M.):

Comparison is made with

Indication: Multiple trauma.

A single right-sided chest tube is seen in place with mild atelectatic densities and lateral pleural thickening associated with the tube placement and multiple rib fractures. Predominantly lower lung field parenchymal densities and perhaps a small pleural effusion is seen on the left. The right subclavian line is unchanged in position. Overall the appearance is stable compared to the prior study. No definite new abnormalities are seen.

MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

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| VISIT TYPE | UNIT | ACCT # | DATE OF BIRTH | SEX F |

DATE OF PROCEDURE

AP PORTABLE CHEST (11:40 AM):

Comparison is made to the comparison. The right sided chest tube has been removed since the previous film. No pneumothorax is identified. A right sided subclavian central venous catheter is now located slightly higher within the superior vena cava, but remains in satisfactory position. Multiple right sided rib fractures are again noted. There is localized pleural thickening or loculated pleural fluid along the right lower lateral chest wall. There are hazy bilateral pulmonary infiltrates in both perihilar areas. There is also hazy left basal increased density, probably related to some pleural fluid in this area as well. No other significant abnormalities are noted and there has been no significant change since the previous day.

AP PORTABLE CHEST:

Comparison is made to the comparison. The right subclavian central venous catheter appears unchanged in position. Multiple right sided rib fractures are again noted with adjacent pleural thickening or loculated pleural fluid. Bilateral pulmonary infiltrates and hazy left basal pleural fluid are also again noted. The overall appearance of the chest has not changed significantly since the previous day.



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CHEST (PORTABLE) 7:00 A.M.:

Comparison:

The left lower lobe infiltrate or contusion and left pleural effusion are unchanged. There are multiple right-sided rib fractures with the right pleural effusion being unchanged as well. There is minor atelectasis in the right base. The central venous line is unchanged in position.

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MEDICAL IMAGING DEPARTMENT RADIOLOGY REPORT

PATIENT NAME

MEDICAL IMAGING #

STATION OR BED #

ATTENDING PHYSICIAN

REQUESTING PHYSICIAN

MEDICAL RECORD #

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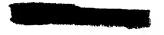
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DATE OF PROCEDURE



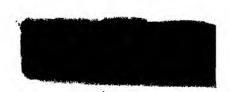
PORTABLE CHEST 7:00 AM:

Provided history: Multiple trauma.

A single portable view of the chest is compared to the previous portable study dated. A right subclavian catheter remains in place with the tip in the region of the superior vena cava. There is persistent hazy opacification of the left lower lung which in part may represent a layering left effusion. There are multiple right rib fractures with hazy opacification at the right lung base which may represent pleural reaction and/or pleural effusion.

IMPRESSION:

1. OVERALL, NO SIGNIFICANT INTERVAL CHANGE.



| MIAMI VALLEY HOSPITAL DAYTON, OHI | O MEDICAL IMAGING NO. | MEDICAL | IMAGING | REPORT |
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RIGHT FOOT (THREE VIEWS):

Comparison -

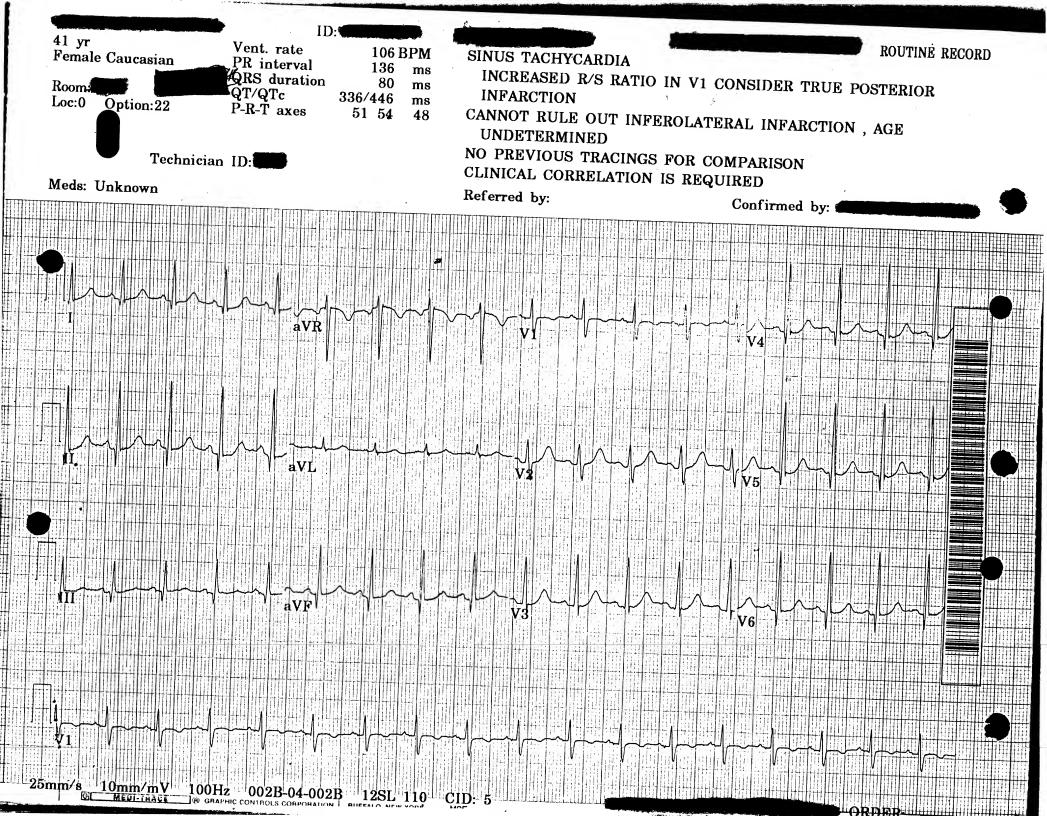
Plaster cast is identified in place. Two orthopedic screws are fixing a comminuted mid and proximal os calcis fracture while some bony detail is limited, as is visualization of the subtalar joint. Overall alignment appears preserved and relatively anatomic.

IMPRESSION: STABLE APPEARANCE OF COMMINUTED OS CALCIS FRACTURE. NO EVIDENCE FOR PROSTHESIS LOOSENING OR MALPOSITION.

LEFT FOOT (TWO VIEWS):

Comparison -

Screw fixation at the site of tarsal/metatarsal fracture dislocation is identified. There is also wire fixation through the second metatarsal. Overall alignment appears anatomic. Also, presence of the cast limits evaluation. The third through fifth tarsal/metatarsal joints are not well demonstrated, but again overall alignment appears essentially anatomic.



41 yr Female Caucasian

Room Loc:1 Option:30

 Vent. rate
 95 BPM

 PR interval
 144 ms

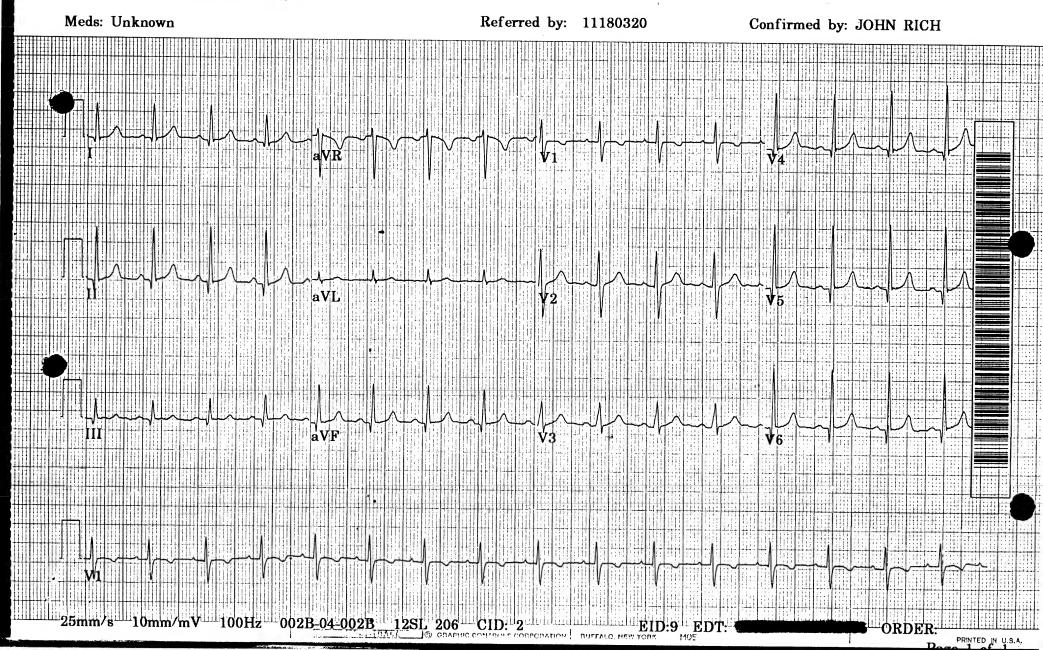
 QRS duration
 80 ms

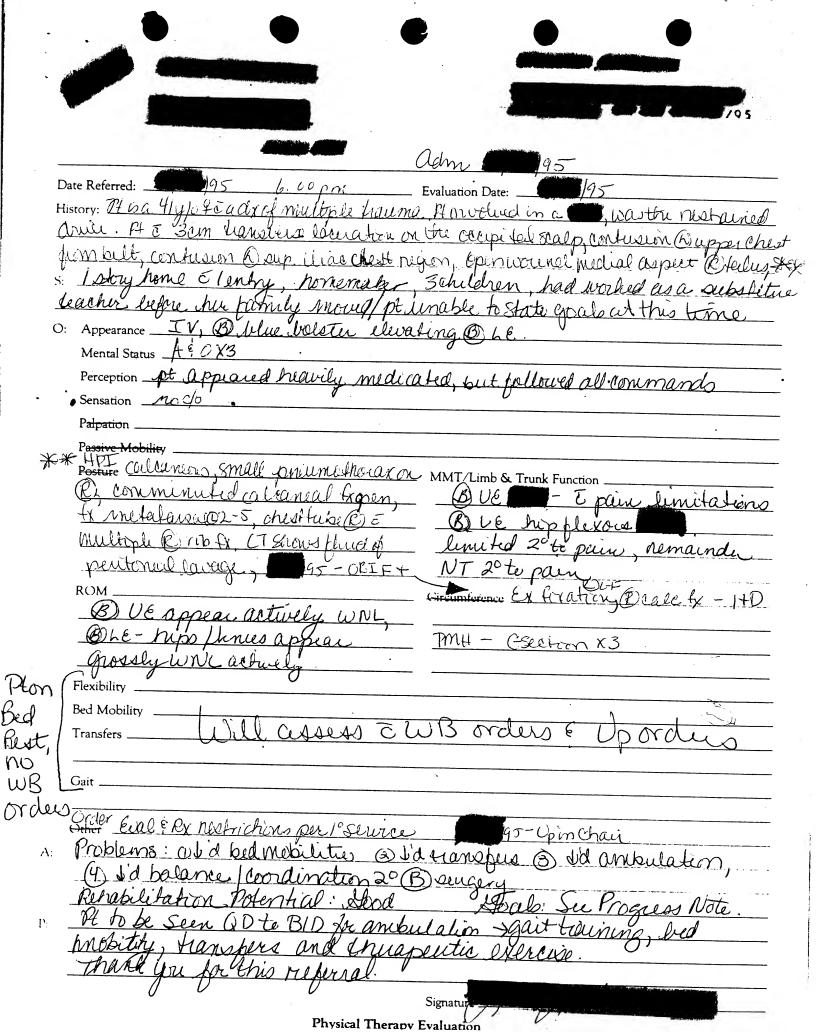
 QT/QTc
 336/422 ms

 P-R-T axes
 59 50 47

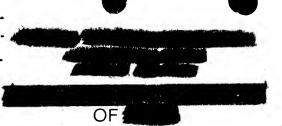
NORMAL SINUS RHYTHM
NORMAL ECG
SIMILAR TO PREVIOUS TRACING

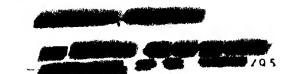
Technician ID:





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| any and all information (including x-rays and |
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| in a motor vehicle accident which occurred on (Patient) |
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PATIENT NAME:

MR#:

DATE ADMITTED:

ATTENDING PHYSICIAN:

ATTENDING RESIDENT:

HISTORY OF PRESENT ILLNESS:

This is a 7 year old white female who was an unrestrained passenger in the back seat of a car. She was allegedly thrown from the car. I am unsure if the window was open or closed. The patient was found down at the scene.

PAST MEDICAL HISTORY:

Currently no family members available. The parents were apparently taken to Miami Valley as they were involved in the trauma as well.

PHYSICAL EXAMINATION:

Blood pressure 100/70, pulse VITAL SIGNS--130, temperature 37.0°, respiratory rate - patient paralyzed. There is a large laceration on HEENT--There appears to be a skull fracture palpable and the scalp. questionable brain matter in the laceration that may be fat. patient has deviation of her eyes to the left. Pupils are 3 mm and initially reactive before paralyzation. Nose patent. There is a On throat exam, trachea is missing tooth in the lower bridge of teeth. There are palpable pulses. midline. Regular rate and rhythm. HEART--She has slightly decreased LUNGS-breath sounds on the right side compared to the left. Soft, non-distended. ABDOMEN--Rock is negative. PELVIS--No noticeable injuries. EXTREMITIES--Pending. RECTAL--Cranial nerves are not NEUROLOGIC-assessable as the patient is having decorticate posturing and deviation of the eyes to the left. She has minimally reactive pupils which are 3 mm. The patient is unresponsive. Glasgow coma scale is 4.

LABORATORY DATA:

remainder of lab is pending. Chest x-ray revealed a tooth in the carina. Cervical spine is negative. AP and lateral thoracolumbar spine films are negative. Pelvis is negative. CT of the head revealed multiple skull fractures, diffuse punctate contusions, multiple small right intracranial hemorrhages, small right parietal subdural hematoma, positive midline shift, cisterns open, and ventricles are noted to be small. CT of the abdomen is pending. The remainder of labs are pending.

ASSESSMENT AND PLAN:

of Mannitol. An NG was placed and patient was intubated. She was reintubated with a cuffed tube when able. A Foley was placed. The patient is being hyperventilated. Fluids are currently being given as patient needs as well as patient receiving a couple of units of blood. The patient was discussed with the patient will need ICP monitoring, Swan-Ganz catheter, and may need bronchoscopy. The patient is seen with

PATIENT NAME:

MR#:

DATE ADMITTED:
DATE DISCHARGED:
ATTENDING PHYSICIAN:
ATTENDING RESIDENT:
PRIVATE PHYSICIAN:

ADMITTING DIAGNOSIS:

Open head injury.

DISCHARGE DIAGNOSIS:

-Open head injury.

-Chronic vegetative state.

PROCEDURES:

Rigid bronchoscopy.

- Bilateral Craniectomy, debridement of necrotic herniated cerebral tissue and placement of Camino intracranial pressure monitor.

- Tracheostomy and gastrostomy placement.

who was the unrestrained passenger in a motor vehicle involved in a high speed head on collision. At the scene, she was evaluated by a physician who was riding with the squad and was unresponsive and exhibiting decerebrate posturing. She was extracted from the automobile and intubation was attempted which was unsuccessful. Upon her arrival at in the late night hours of the she was at that time successfully intubated. She had sluggish pupillary reflexes. The eyes were deviated to the left. There was a large scalp laceration which extended across the midline with exposed skull and obvious fracture. No cerebral tissue was visualized at that time. There were several broken teeth and no obvious injuries to the chest, abdomen, pelvis or extremities.

When the patient was seen by HOSPITAL COURSE: neurosurgery, she had been pharmacologically paralyzed for her intubation and had been taken to the CT scanner. At that time she was hypotensive with systolic blood pressures in the 50s. A brief examination was performed while she was still on the scanner. She had a large scalp laceration which was partially covered by bandages, the full extent could not be appreciated at that time. There did not appear to be any acute bleeding from that area. However, the dressings were saturated. The paralytic agents were wearing off, she was not moving spontaneously. There was no response to corneal stimulation. There was no gag. There was no response to deep noxious stimuli in the midline. There was no response to nail bed crush and neither hand and no response in the right foot. In the left foot to nail bed pressure there was nonspecific movement in the toes. She was areflexic and the toes were none responding at this time. The cervical spine studies were reviewed and did not show any obvious injury. The head CT scan demonstrated a

skull fracture extending bilaterally that was widely diastatic but only minimally depressed, however. There was a hematoma in the right parietal lobe consistent with laceration of the dura and the cerebral tissue directly below the fracture suggesting that the fracture edge had initially been pushed into the brain tissue. The hemorrhage continued to a depth of approximately 2.5 cm on the CT scan. There was a very small subdural hematoma on the right side which was at its greatest extent at the most 7 mm thick and it was not causing any significant There were a number of small punctate contusions mass effect. throughout both hemispheres basal ganglia and brain stem. The ventricles were very small the ambient cisterns were still present although there were some asymmetry of the lateral recess of the ambient cistern on the The fourth ventricle was open and the basilar cisterns were right side. open.

The patient's Glasgow coma scale on arrival was four and she was initially taken to the ICU where our plans were to irrigate and close the scalp laceration and placed a communal ICP monitor for conservative management of her posttraumatic brain swelling. However on taking down the dressings, we encountered a considerable quantity of necrotic herniated cerebral tissue which had not been present when she arrived in the emergency room which suggested an evolving process with the swelling. Therefore, she was taken emergently to the operating room and the laceration was extended on both sides and the fracture pieces were debrided as was the necrotic brain tissue. Again, a significant quantity of tissue was encountered in the subgaleal space.

Once the tissue had been removed the dural edges were inspected in the area of the fracture on the right side. The dura was lacerated and shredded into several pieces it could not be primarily repaired and because of this being an open injury we felt performing a duraplasty at this time would be unadvisable because of the infection risk. After the craniectomy, the tissue appeared to be relatively flat and there was no ongoing herniation of tissue. At that point, the wound was closed primarily with the bone fragments left out leaving a large bilateral decompressive craniectomy.

An ICP Monitor was placed and the intracranial pressure was noted to be 13 mmHg of Mercury, this with hyperventilation being maintained. From there, she was taken directly to CT scan and this study demonstrated that ventricles and cisterns were considerably more patent. There was hemorrhagic contusion in the area of the herniated brain but no mass effect. The small subdural that had been present previously was not appreciable.

The patient was admitted to the and maintained with hyperventilation and osmotic agents as well as pressors to maintain adequate cerebral

The first two days the ICP's ranged from the 20 to profusion pressures. 30 range and cerebral profusion pressures were tenuous but could generally be maintained in the 50s. As time progressed, the intracranial pressure became more easily managed and the cerebral profusion pressures came up and we were able to wean the Nembutal and ' Dopamine and then eventually wean hyperventilation and the Mannitol while maintain excellent intracranial pressures. The patient's ICP during the proceeding 24 hours monitor was removed on the her ICP had ranged from 7 to 13 and her cerebral profusion pressure 56 A CT scan that same day demonstrated that she had resolved the There was still an area of rather small punctate contusions. significant cephalomalacia on the right posterior frontal and parietal area and a small area of edema in the left frontal region. there was no mass effect. The intrahemispheric fissure was open. Sylvian fissures were open. The ventricles were of normal size and configuration. The basilar cisterns and ambient cisterns were all normal in appearance.

The patient remained in coma vigil. She became markedly hypotonic especially of the lower extremities and could not be maintained with splints and was begun with serial casting. The patient was maintained on Claforan' and Clindamycin for aspiration. She had had significant aspiration with collapse of the right lung at the time of her presentation and during the same anesthetic as her intracranial procedure was performed she underwent rigid bronchoscopy for removal of large food particles from the right bronchial tree. Despite this, all of her cultures remained negative with exception of normal Flora and colonization with Staph. continued to have fevers associated with tachycardia, tachypnea, diaphoresis, increasing tone and it was felt to be consistent with anergic storming. This responded well to doses of Thorazine and she was placed on Clonidine patch which significantly decreased the frequency and severity of these spells as well. Because she was not becoming responsive and remaining in a coma vigil, she underwent placement of a G-tube and tracheostomy which she tolerated well. The tracheostomy was changed on postoperative day five from that procedure.

Other problems encountered during her hospitalization was hyponatremia not associated with diabetes insipidus and this was treated with increase of free water in her tube feeds and she responded well with that.

DISCHARGE PLAN:

day #20. She remains in coma vigil, but has long alert periods and we are very hopeful that she will regain responsiveness and interaction with outside stimuli. She has a G-tube and tracheostomy in place and has casts on both lower extremities which should be changed weekly. Her current medications are Zantac 50 mg b.i.d., Catapres TTS-1 patch replace every 7 days, Thorazine 10 mg every 6 hours p.r.n. basis. Her

tube feeds are Traumacal 0.5 strength at 125 cc per hour. At the time of her discharge her electrolytes: Sodium 147, potassium 3.7, chloride 107, Bicarb 25.6, BUN 22, Creatinine 0.5 and glucose 135. Her hemoglobin and hematocrit are 12.8 and 38.0 respectively, platelet count is 467,000, white count is 14.2 with 67% segs, 6% bands, 16% lymphs, 8% monocytes and 3 eosinophils. Blood cultures, sputum cultures and urine cultures are no growth at this time. She has a large craniectomy defect and we anticipate repairing this with Titanium Methylmethacrylate cranioplasty in 6 to 12 months. There is a resolving subgaleal hematoma.





DATE OF CONSULTATION: REQUESTING PHYSICIAN: CONSULTING PHYSICIAN:

HISTORY OF PRESENT ILLNESS:

Was an unrestrained occupant in the back seat in a vehicle involved in a high speed head on collision. She was catapulted through the front window and found outside the car by the emergency medical personnel with bilateral spontaneous decerebrate posturing. She was brought to where she was noted to still be posturing and she was paralyzed and intubated. She was sent for CT scan after her initial evaluation by the trauma team. A neurosurgical consultation was requested as the patient was being sent for CT scan. On my arrival here, the patient was in the CT scanner. She was hypotensive with systolic blood pressures in the 50's.

The patient was briefly examined NEUROSURGICAL EVALUATION: between radiographic studies. The examination revealed a large scalp laceration which is partially covered by bandages, so full extent cannot be appreciated. There does not appear to be any actual bleeding from this at the moment. However, the dressings are significantly saturated The child is no longer paralyzed, but is not moving. with blood. is being hyperventilated, but despite vigorous efforts, the PCO2 at this time is 37. On 100% FIO2, the PAO2 is 139. The pupils are 2.5 mm bilaterally and non-reactive. There is a piece of glass embedded in the center of the left cornea and a horizontal abrasion across the middle of the right cornea. There is no response to corneal stimulation. cannot check oculocephalics at this time. There is no gag reflex. There is no response to deep noxious stimuli in the midline. no response to nail bed crush on either hand or in the right foot. There is some non-specific movement of the toes in the left foot with nail bed pressure. There was no response to arterial punctures. are no elicited reflexes or Babinskis at this time.

The cervical spine studies are reviewed and the odontoid is of limited quality secondary to overlay of the teeth. However, the AP and lateral cervical, thoracic, and lumbosacral spine show no evidence of fracture, dislocation, or soft tissue injury.

The head CT scan demonstrates a minimally depressed skull fracture extending biparietally, but more extensively down the right side than the left. As it crosses the sagittal suture, that suture is diastatic. It is not associated with an epidural hematoma. There is a small subdural hematoma on the right side

measuring approximately 7 mm in its thickness, but not causing significant mass effect at this point. There is a contusion underlying the fracture line which has a linear appearance suggesting a cortical laceration and possibly a dural laceration as well. There are multiple small punctate contusions throughout both hemispheres, basal ganglia, and brainstem. They are more concentrated on the centrum semiovale. The ventricles are very small, but the ambient cisterns are open at this time although there is some asymmetry of the lateral recesses of the ambient cistern with the right side being somewhat deformed. The fourth ventricle is open. The basilar cisterns are open.

Severe head injury with skull IMPRESSION: fracture, multiple contusions, and subdural hematoma. There is midline shift, but it seems to be more associated with the multiple contusions The Glasgow coma scale is 4 and she rather than the subdural hematoma. gets a sole point for the decerebrate posturing at presentation. prognosis for his head injury is very poor. I think that attempts to evacuate the small subdural hematoma at this time would result in more harm than benefit. We would recommend not taking her to the operating room and subjecting her to a general anesthetic. I suspect that her hypotension currently is secondary to blood loss, and we would recommend giving her colloid until blood is available and then transfusing her empirically. We would like to place a Camino ICP monitor and will plan on aggressive management with hyperventilation and osmotic diuretics and possibly inotrope and pressor therapy if required. We will debride the laceration at the bedside and perform a primary closure. If at some time the child returns to the operating room and it is felt that further debridement is required, it can be done at that time. A follow-up head CT should be obtained in six hours or sooner should there be any abrupt changes in the intracranial pressure. There is a good likelihood that the subdural may enlarge, the contusions may enlarge, or she may develop a bone edge epidural hematoma which will require surgical evacuation. We will be prepared to do that should those problems occur. Otherwise, our recommendation would be to manage her with aggressive medical interventions.

ADDENDUM:

Scanner and a more thorough examination can be performed. The bandages over the head are taken down and there is a large open scalp laceration extending biparietally. There is herniation of brain tissue through the associated fracture.

This child will need surgical debridement and repair of the dural laceration. Our plan will be to leave the bone out and hopefully we will be able to achieve adequate

dural closure. We will need to see at the time of surgery whether or not the subdural can be removed to any benefit to the patient without resulting in more significant loss of cerebral tissue.

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CT HEAD/FACE MULTIPLE TRAUMA

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EMERGENCY CT OF THE HEAD AND FACE:



Clinical history: A 10-year-old female unrestrained passenger in a motor vehicle accident with head and facial trauma.

<u>Technical:</u> Transverse 5 mm scans were obtained through the face from the hard palate to the roof of the orbits. Transverse 5 mm scans were then obtained through the posterior fossa with 10 mm scans through the remainder of the brain. Soft tissue and bony windows were filmed.

Findings: There is a large amount of soft tissue swelling in the facial region, especially over the left orbit and frontotemporal region. There is a fracture through the right frontal bone which extends through the right frontal sinuses and into the cribiform plate. Linear fracture across the roof of the right orbit is also demonstrated. There is a non-displaced fracture through the lateral wall of the left orbit. A fracture through the roof of the left orbit is also suspected. The right lamina papyracea is disrupted with a small fragment of bone displaced medially deviating the medial rectus muscle. There are air fluid levels in the sphenoid sinuses bilaterally with fluid throughout the ethmoid sinuses. The mastoid air cells are symmetrically aerated. No radiopaque foreign body is identified.

The lateral and third ventricles are small but not completely obliterated. There is a hemorrhagic contusion in the right frontal lobe and probably the left frontal lobe as well. No shift of midline is identified. There is gray-white differentiation in the cerebral

Continued on Page 2

CT HEAD/FACE MULTIPLE TRAUMA

Page 2

hemispheres. The suprasellar cistern is preserved. There is also pneumocephalus with air in the right frontal region adjacent to the fractures.

IMPRESSION:

- 1. MULTIPLE FACIAL FRACTURES THROUGH THE RIGHT FRONTAL SINUS AND CRIBIFORM PLATE AS WELL AS THE LATERAL AND SUPERIOR WALLS OF THE ORBITS BILATERALLY. THERE ARE ALSO FRACTURES THROUGH THE MEDIAL WALLS OF THE ORBITS BILATERALLY. ON THE RIGHT, SMALL FRAGMENTS OF BONE ARE DISPLACED TOWARD THE MEDIAL RECTUS MUSCLE. THERE IS BLOOD THROUGHOUT THE SPHENOID AND ETHMOID SINUSES WITH FLUID, LEVELS ALSO DEMONSTRATED IN THE MAXILLARY SINUSES.
- 2. SMALL HEMORRHAGIC CONTUSIONS ARE DEMONSTRATED IN THE FRONTAL LOBES BILATERALLY.

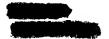
EMERGENCY CT OF THE ABDOMEN AND PELVIS:



Clinical history: A 10-year-old female involved in motor vehicle accident.

Technical: A helical scan of the abdomen and pelvis was obtained during the intravenous bolus injection of 80 cc of Isovue 300. No adverse reaction to IV contrast was recognized. Beam collimation was 10 mm and table speed was 10 mm/second.

Findings: There is a nasogastric tube in position with the tip in the antrum of the stomach. The liver and spleen enhance normally. Multiple out of field artifacts project through the posterior portions of the spleen and liver. No definite parenchymal injury is appreciated. The kidneys enhance and excrete contrast without obstruction or delay. No free intraperitoneal air or fluid is identified. There is a Foley



CT HEAD/FACE MULTIPLE TRAUMA

Continued on Page 3 Page 3

catheter in the bladder with an air fluid level in the bladder. Areas of contusion are demonstrated in the posterior lower lobes bilaterally. No pleural fluid or pneumothorax is seen.

IMPRESSION: SMALL BILATERAL LOWER LOBE CONTUSIONS WITHOUT PLEURAL FLUID OR PNEUMOTHORAX. THE LIVER, SPLEEN, AND KIDNEYS HAVE A NORMAL APPEARANCE.



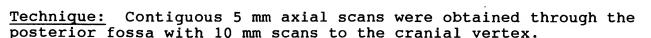
HEAD SCAN - W/O CONTRAST

ALTERATION OF ORIGINAL ORDER MULTIPLE TRAUMA CT SCAN OF HEAD WITHOUT CONTRAST



EH

CT OF THE HEAD WITHOUT CONTRAST:



Findings: Comparison is made to the postoperative scan dated Radiopaque intracranial pressure monitor in the right frontal brain causes marked streak artifact obscuring detail. Numerous surgical staples again cross the frontal region. Brain bulges outward at the skull defect near the vertex. The right parietal portion of the fracture shows increased lateral displacement of the anterior fracture fragment near the vertex. Α small amount of residual pneumocephalus is seen beneath the frontal Marked subcutaneous soft tissue swelling is worse on the right The left sphenoid sinus is nearly completely opacified than the left. with a small amount of soft tissue density rimming the right sphenoid The lateral and third ventricles again appear small and compressed, again with mild prominence of the right temporal horn. fourth ventricle is normal in size. Midline shift to the left has worsened with subfalcine herniation. Basilar cisterns are small and Right greater than left parenchymal hemorrhage is again noted with significant low density edema, particularly in the right cerebral hemisphere. A small amount of blood is again seen in the interhemispheric Edema again surrounds the superior left parenchymal hematoma at fissure. the convexity.

IMPRESSION: POSTOPERATIVE EXAMINATION WITH EVIDENCE OF INCREASED SUBFALCINE HERNIATION AND RIGHT-TO-LEFT SHIFT. ASYMMETRIC PROMINENCE OF RIGHT TEMPORAL HORN ALSO SUGGESTS COMPRESSION AND TENTORIAL HERNIATION. PARENCHYMAL HEMATOMAS, RIGHT GREATER THAN LEFT, WITH SIGNIFICANT CEREBRAL EDEMA AND INCREASED FRACTURE DISPLACEMENT.

HEAD SCAN - W/O CONTRAST

ALTERATION OF ORIGINAL ORDER MULTIPLE TRAUMA

CT SCAN HEAD TO BE DONE (PLEASE SCHEDULE AT END OF DAY)

EH

CT OF THE HEAD WITHOUT CONTRAST:



Technique: Contiguous 5 mm axial scans were obtained through the posterior fossa with 10 mm scans to the cranial vertex.

Findings: Comparison is made to the prior study dated The intracranial pressure bolt monitor has been removed. Surgical staples again cross the vertex. Comminuted skull fracture at the vertex is again seen with increased outward displacement of the anterior fracture fragments, and protrusion of brain tissue through the skull defect anteriorly. Soft tissue swelling remains in the subcutaneous tissues near the vertex, right greater than left. The lateral ventricles can now be identified and are no longer slit like, and are not enlarged. ventricle and fourth ventricle are normal in size. The right temporal horn is no longer enlarged. Basilar cisterns are more readily visible. Some sulci are now visible. Considerable low attenuation remains related to hemorrhagic contusion mainly in the right cerebral hemisphere. hemorrhagic portion shows interval decrease in attenuation. edema remains in the right parietal lobe as well as the right posterior temporal lobe and to a lesser extent the right frontal lobe. Low attenuation edema is also present in the left frontoparietal region. high attenuation blood remains in the interhemispheric fissure posteriorly, although low density fluid is seen anteriorly in the interhemispheric fissure. A thin rim of low attenuation fluid also lies along the right frontal and temporal convexity, possibly representing

HEAD SCAN - W/O CONTRAST

ALTERATION OF ORIGINAL ORDER MULTIPLE TRAUMA

CT SCAN HEAD TO BE DONE (PLEASE SCHEDULE AT END OF DAY)

Page 2

small evolving to chronic subdural hematoma. No similar extra-axial fluid is seen along the left convexity. Some gray-white matter differentiation is identified. The sphenoid sinuses are nearly completely opacified bilaterally with opacification of numerous ethmoid air cells also. Previous midline shift has nearly resolved but is still minimally present at the level of the lateral ventricles.

IMPRESSION: SIGNIFICANT CEREBRAL SWELLING PERSISTS FOLLOWING HEMORRHAGIC CONTUSIONS AND REPAIR OF COMMINUTED SKULL FRACTURE. HOWEVER, MASS EFFECT IS SIGNIFICANTLY IMPROVED LEAVING SLIGHT RESIDUAL MIDLINE SHIFT. SMALL EXTRA-AXIAL HEMORRHAGE, LIKELY SUBDURAL, AGAIN NOTED IN THE INTERHEMISPHERIC FISSURE AND ALONG THE RIGHT CONVEXITY. SPHENOID AND ETHMOID SINUS OPACIFICATION.

The following information is a part of the patient's medical record and should be maintained in a confidential manner consistent with medical record policies.

| | ☐ Status Report | Disch | arge Summary |
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| Name Begin TX: End TO Diagnosis: 5/0 / 1 | DOB: Ref. Physician | Age: Ou | MR# |
| Occupational Therapy | Physical The | | Speech Therapy . |
| Subdurd ben | restrained puse e fracture, multi- retima à medica Timperal laber in Luculy cajures. | Treft. | Lucions. |
| Patient was evaluated on | INITIAL ASSESSMENT AND Initial observations | | el le plom E |
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| Initial long-term goal (s): | autain Prom of | hands. | |
| Current short-terms goals: 1. Px wice tal. 3 xin break | | NS or vetal | a /hroff |
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| Therapy consisted of: Management of the age | intervention oniting of UU Sp. | linte è Ul Kapano. | PRam, pistining |
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| Attendance/E | behavior: Se unsusponsence Father - family hery inuclued oursols of affection |
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| Adaptive equ | ipment used: BUE: LE RALLES. |
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| | CURRENT STATUS |
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| 12 | RECOMMENDATIONS |
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| | or allowing us to participate in the care of this patient. If questions arise concerning the course of |
| reatment, p | lease contact |
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| Therapist: | |

Formulated 10/93

CC:

| | Status Report | ☑ Disch | arge Summary |
|--|--|-------------------------|--------------------------|
| Name Begin TX End TX Diagnosis: CHT ao to Occupational Therapy | and the second s | Age: 74.0. | MR# |
| open depressed sku | A 74.0. & VICTOM OF thrown from the Ilfo, ā durali contica rematoma. Referral a | redicle systain | ion soul land |
| | INITIAL ASSESSMENT | AND GOALS | |
| ON went support of | . Initial observa | ations included: Pt. in | o to 1 extension synergy |
| Initial long-term goal (s): Prese | Aron of contendence | es à MAXIMIZING | hudion to cognitive |
| Current short-terms goals: (1) Visual on Audidance (2) (2) (2) (3) (4) (5) (5) (7) (8) | . 1 . / | | schedule & Asgrifical |
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| Therapy consisted of: PROM L.E. & panestal educa | INTERVENTI 1/stretching, Visual/ ation. | ON Auditory stm | ulatran & splinting of |
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| Attendance/Behavior: Pt. seen QD/BJD & inconsistent response to strangli. |
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| Adaptive equipment used: Foot splists to reconneblation for ontho to inhibitive. |
| CURRENT STATUS |
| Pt. is a 74.0. w & who presents litt cognitive is notor skills. Pt. presently exhibits skills in the level II-III Range According to the Ranchos Las Anigas Cognitive Scale. |
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| RECOMMENDATIONS |
| Begin intensive rehab pargam combined à 0T/PT/ST. |
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Thank you for allowing us to participate in the care of this patient. If questions arise concerning the course of treatment, please contact

| | ☐ Status Report | ☑ Disc | harge Summary |
|------------------------------------|------------------------------------|--------------|------------------|
| Name Begin TX: End TX: | DOB: | Age: 7 | MR# |
| | d Injury 2° to mu | A on | |
| Occupational Therapy | Physical T | | Speech Therapy |
| ledical Background: <u>Pleas</u> e | e see initial Rep | ort | |
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| | INITIAL ASSESSMENT A | ND GOALS | |
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| GENERALIZE & YES | rponse to sensory pediatric levels | of consc | According to |
| nitial long-term goal (s): No | T Established at the | is time | |
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| | - INTERVENTION | J | |
| herapy consisted of: | oma Stymulation | | |
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| Status Report | Discharge Summary |
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| Attendance/Behavior: N/A |
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| Adaptive equipment used: N/R |
| Adaptive equipment used: N/A |
| CURRENT STATUS |
| Gentinues to Function at Coma Level IV (gives generalized response to stimuli) and appears to begin showing signs of coma Level III (gives Localized respon- to sensory stimuli) according to pediatric levels of consciousness |
| RECOMMENDATIONS |
| 1. Continue coma stimulation |
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Thank you for allowing us to participate in the care of this patient. If questions arise concerning the course of treatment, please contact

PATIENT NAME:

MR#:

DATE OF SURGERY:

ATTENDING SURGEON:

ANESTHESIA:

General endotracheal.

PREOPERATIVE DIAGNOSIS:

Depressed, open skull fracture with dural laceration and cortical laceration, small subdural hematoma.

POSTOPERATIVE DIAGNOSIS:

Depressed, open skull fracture with dural laceration and cortical laceration, small subdural hematoma.

OPERATION:

Craniectomy for elevation and debridement of depressed skull fracture, debridement of necrotic brain tissue. Placement of right frontal Camino intracranial pressure monitor.

ESTIMATED BLOOD LOSS:

250 cc.

Colloid 500 cc, crystalloid 542 cc, packed red blood cells 2½ units. Urine output is 390 cc.

SPECIMENS:

Herniated brain tissue and

elevated bone flaps for permanent section.

COMPLICATIONS:

None.

COUNTS:

sponges correct.

Sponge, needle, and Cottonoid

is a 6-year-old female INDICATIONS: who was an unrestrained back seat passenger in a high speed motor vehicle accident in which she was ejected from the vehicle through the front window. She was found with decerebrate posturing at the scene. where she was stabilized She was brought to and CT scan was obtained which demonstrated depressed skull fracture with small subdural hematoma and a small cerebral contusion which was linear and perpendicularly situated to the skull suggesting cortical and dural laceration from the bone edge of the fracture. Initially it was intended to manage her conservatively as her cisterns were open and there was only a small amount of midline shift from the diffuse axonal

shear injury and minimal mass effect from the small subdural. However, she developed herniation of cerebral tissue into her laceration and she was, therefore, taken to the operating room.

PROCEDURE:

After obtaining informed consent from the father, the youngster was brought to the operating room.

Before the neurosurgical procedure was done, a rigid bronchoscopy was performed by and this is dictated as a separate procedure.

After this was done, the scalp

was shaved. The laceration on the scalp was noted to be filled with necrotic, herniated brain tissue. Some of this was collected and sent for pathology. The laceration was irrigated with three liters of Bacitracin-containing lactated Ringer's and then prepped with Betadine gel and draped in a sterile manner.

The scalp was incised, extending beyond the laceration to expose the fracture. This was carried down with the monopolar through the galea and the scalp was reflected in a subperiosteal plane to expose the extent of the fracture. Some loose There was additional herniated brain fragments were debrided. The Midas Rex was used to remove encountered which was irrigated away. the fractured bone pieces by outlining them slightly beyond the fracture line with the B1 attachment. On the right side, an extensive dural laceration was encountered. At the posterior margin of this laceration, there was a cortical laceration. This was the site of the herniating The bone in this are was removed with the Leksell rongeur, but there were no adequate free dural edges for closure. With the extensive bony resection, there was adequate decompression of what had initially been an extremely tense dura to prevent further herniation of cerebral tissue and the area was, therefore, covered with a piece of Gelfilm. There was no active bleeding from that region and a drain was placed into the subgaleal space and brought out through a separate stab wound in the skin and anchored with a #4-0 nylon.

The galea was closed with interrupted #3-0 Vicryl and the scalp was closed with staples. A stab wound was made in the mid pupillary line on the right in the area of sturdy bone, but still behind the hairline. The small twister was used to perforate the cranium and the Camino bolt was screwed into the skull. The stylet was used to perforate the dura. The Camino monitor was calibrated and inserted. The initial intracranial pressure was 13 mmHg.

Sterile dressings of Bacitracin, Telfa, and Ace wrap were then placed over all incisions. The patient was taken to CT scan for a follow-up study. The scan showed good bony decompression. The area of contusion had enlarged significantly, however, there was no mass effect and in fact, the temporal horn of the right ventricle was enlarged, but did not appear to be trapped, suggesting a hydrocephalus ex vacuo effect, almost certainly the result

of the preoperative herniation of brain tissue. The basilar cisterns were widely patent. The patient was then transported back to the intensive care unit in good condition. Upon arrival in the ICU, the intracranial pressure was 5 mmHg.

PATIENT NAME:

MR#:

DATE OF SURGERY:

ATTENDING SURGEON:

ATTENDING RESIDENT SURGEON:

ANESTHESIA:

General endotracheal.

PREOPERATIVE DIAGNOSIS:

Multiple trauma with severe skull fracture with brain herniating as well as right upper lobe and multiple atelectasis on the right lower lobe, probably secondary to aspiration of food.

POSTOPERATIVE DIAGNOSIS:

Multiple trauma with severe skull fracture with brain herniating as well as right upper lobe and multiple atelectasis on the right lower lobe, probably secondary to aspiration of food.

OPERATION:

Rigid bronchoscopy, bronchial lavage, and removal of multiple foreign bodies, mostly food particles.

ESTIMATED BLOOD LOSS:

PROCEDURE:

anesthesia and the usual surgical prep and drape, the endotracheal tube was removed after suctioning the mouth and clearing most of the food particles in the hypopharynx. The scope was then inserted.

At the trachea, food was encountered and was suctioned as well as irrigated with saline. The scope was then advanced into the right main stem where most of the food particles were coming out from all the orifices. As much as six to seven large chunks of foreign material was then removed both by suctioning and by manual removal with the foreign body forceps. Near the end of the procedure, there were still some smaller particles of foreign body, but the scalp and the brain continued to herniate and bleed so that the procedure was terminated so the craniotomy could be commenced.

The scope was then withdrawn and the patient was then reintubated. The plan is to take another x-ray

after the craniotomy and determine if she will further require bronchoscopy. Presumably some of these smaller particles can be suctioned out in either recovery or ICU postoperatively. The patient tolerated the procedure and the surgery was then taken over by

The above information is a part of the patient's medical record and should be maintained in a confidential manner consistent with medical record policies.

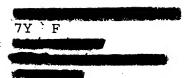
NAME

AGE, SEX:

DATE OF BIRTH:

DR:

ACCOUNT #:



PATHOLOGY #: DATE RECEIVED:

MR #:

ROOM #:



PREOPERATIVE DIAGNOSIS:

OPEN SKULL FRACTURE WITH HERNIATED

BRAIN

POSTOPERATIVE DIAGNOSIS:

SAME

PROCEDURE:

CRANIOTOMY

SPECIMEN LABELED:

A: SKULL FRAGMENTS

B: BRAIN TISSUE

GROSS EXAMINATION:

A. Debrided skull fragments. Received in formalin, five fragments of skull bone ranging from $3.9 \times 0.6 \times 0.4$ to $7.5 \times 5.0 \times 0.4$ cm, and $11.0 \times 8.0 \times 0.4$ cm in aggregate. The fragments present irregular borders and linear fractures.

B. Herniated brain tissue. Received in formalin, several fragments of soft, friable, white-gray tissue, the largest 2.3 x 1.1 x 0.5 cm, and 3.0 x 3.0 x 0.5 cm in aggregate. In addition, a 3.0 x 2.5 x 1.5 dark red fresh blood clot. B/3

MICROSCOPIC EXAMINATION:

A. No microscopic examination.

B. Sections show brain tissue with focal perivascular acute hemorrhages, edema and neuronal body contraction. Areas of a fresh blood clot contain fragments of brain tissue.

FINAL DIAGNOSIS:

A. Debrided skull fragments: Skull fragments consistent with fracture, (gross only). PAS 2

B. Herniated brain tissue, open skull fracture with herniated brain: Acute hemorrhagic necrosis, edema and hypoxic changes. PAS 5

| capacity was pertinent FS CONS CONS PATH PN AUDI PEDO OPTO Surg E | is conducting a research investigation into a two vehicle crash which occurred in the participants in the crash, and in the participants in the crash, and in the participants in the crash, and in the participants in the crash. In the participants in the crash, and and participants in the crash, and and participants in the crash. In the participants in the crash, and and participants in the crash, and and participants in the crash and participants in th |
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| exclusion | You should be aware that interest in this crash resides with the effectiveness of applicabe and not with passenger identification. Federal law requires the of personal identifiers from investigative reports to protect the privacy of the crash victim. Thank you for your cooperation and support. It was a pleasure speaking with one of your colleague concerning this matter. The copies can be mailed to: |

Dear records requester:

We have received your request for a copy of records maintained by us. We maintain records during a patient's stay so we can provide proper care. Once we have concluded our care of the patient, these records are maintained primarily to facilitate future medical care of the patient. Because the expense of copying records diverts money from our primary mission of providing health care, we do not provide the service of copying records, packaging and shipping them, and billing for this kind of record request.

Of course, to the extent permitted by law, the records of a patient may be inspected and copied by the patient (in most cases), his physician, and any other person authorized by the patient or by law, but we do not maintain copy facilities for the public to use. Rather than return your request unfulfilled, we have referred your request to the processing on our premises, which will save you time and inconvenience. Will, provide the services you requested and is the only medical records copying service to which we are referring requests of this kind.

A WORD ABOUT

records professionals that serves a number of health care facilities in this area and across the control ordinarily forwards to us a retrieval fee collected from requesters like you and also provides without charge a number of valuable copying, mailing, and information management services for us.

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DATE OF VISIT:

History of car occupant of a MVA. This child was brought in by squad. She was an unrestrained passenger in a rare seat in a head on collision with significant damage to both cars. Three other riders were significantly injured. sister is here with significant head injury.

The squad personnel reports that there was some significant damage to both cars that were involved. Was groaning and responsive initially in the back seat. She was extricated, immobilized and transported here. As she was entering the ED, she developed generalized tonic clonic seizure, vomited a large amount of food content. It's not clear whether the seizure proceeded the vomiting.

PHYSICAL EXAM: She appeared in a generalized tonic clonic seizure when I saw her with eyes deviated to the right. The pupils were symmetrical, responded sluggishly to light. was controlled with some Ativan IV. She was breathing spontaneously. Had a heart rate in the upper 90 range. The late part of the transport when she was seizing and vomiting, the neck was not immobilized appropriately in spite of her restraints and her c-collar. Her head demonstrated a depressed area of the left frontal scalp with localized contusion with a depressed left parietal frontal region. The depressed area is about 10 x 12 cm. She has raccoon eyes. The face otherwise appears symmetrical. Pupils are symmetrical and still responsive sluggishly to light.

We electively intubated her with induction of sodium Pentothal and Norcuron. The intubation was performed by She has a small left upper arm contusion, deformity of the right ankle. Otherwise, no obvious contusions or deformities. Her neck and back were immobilized and her chest appears symmetrical with good chest excursion. Her BP has remained normal. Pulse ox is 100. We are able to ventilate her and oxygenate her easily, after she was electively intubated. Lungs with no rales, rhonchi or wheezes. Heart RRR without murmurs. Abdomen is soft with no organomegaly or masses. Pelvis appears stable. Extremities: Except for the right ankle that appears deformed, no other obvious deformities appreciated.

was obtained. Films that included c-spine, chest x-ray, pelvis, right ankle were obtained. will go to CAT Scan for head and abdominal CAT Scan as soon as her is out of it. Total contact time with was about one hour. At this point, the chest x-ray is back and

demonstrates a generous heart size left sided pulmonary contusion. ET tube is in place. NO evidence of rib fractures.

TREATMENT:

DIAGNOSIS:

Multiple trauma secondary to car occupant MVA

| NAME DATE SEX FAPPROX. WT. 7240 KG |
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| ARRIVAL TIME TYPE OF TRANSPORT TYPE OF TRANSPORT |
| ALLENGIES WEDICATION INSTORT |
| HISTORY OF EVENT MENDON MUA BACKS CAT UN RESTRAINED |
| TREATMENT PRIOR TO ARRIVAL TO E.R. |
| AIRWAY: Oral Nasal E.T. E.O.A. 02 |
| IMMOBILIZATIONS/DRESSINGS: BACKBOARD CERVICAL COLLAR |
| WELFDADY (STATE OF THE ACTION |
| IV THERAPY (site/needle/solution/rate) |
| TREATMENT IN E.R. (CIRCLE OR, DESCRIBE) |
| RESPIRATORY THERAPY/AIRWAY MAINTENANCE: ATYPE CLARED ST TUBE SIZE 6.0 |
| ORAL NASAL PERFORMED BY |
| X-RAYS: LOCATION: Chest PA & Lat Flat abd. Skull C-spine Portable |
| Extremity To X-ray |
| LABS (CIRCLE): CBC SGOT SGPT GLUCOSE TOX SCREEN - BLOOD/URINE (U/A) |
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Date Time PATIENT NAME:

MR#:

DATE ADMITTED:

ATTENDING PHYSICIAN:

ATTENDING RESIDENT:

This is an 11 year old white HISTORY OF PRESENT ILLNESS: female who was involved in a motor vehicle accident with questionable details. Patient was unrestrained.

PAST MEDICAL HISTORY:

Unobtainable.

PHYSICAL EXAMINATION:

37, saturations 100% on ventilator.

Head - patient has abrasion to **HEENT:** the left side of the face and head as well as a large hematoma of the left face and scalp. Eyes - pupils initially deviated to the right before paralyzation. Pupils were reactive and 4 mm. Nose with patent airway bilaterally. Ears - tympanic membranes unable to be visualized due to wax but no blood coming from the ear. Throat clear. Trachea midline.

NECK:

Supple.HEART:

LUNGS:

symmetric expansion bilaterally.

when she was awake. Pelvic rock negative.

RECTAL:

NEUROLOGIC:

approximately 9.

EXTREMITIES:

otherwise unremarkable.

Vital signs stable. Temperature

Regular rate and rhythm.

Clear to auscultation with

Soft, nondistended, nontender

Heme negative with good tone. Patient was sedated and

partially paralyzed. Pupils 4-5 mm and reactive. Glasgow coma scale

Slight left arm contusion,

EKG shows normal sinus rhythm with occasional PVCs. Chest x-ray negative. C-spine negative. Thoracic spine negative. Lumbar spine negative. Pelvis negative. Right ankle with a medial malleolar fracture and questionable lateral malleolar fracture. Patient was seen by Orthopedic and had been casted. Blood gas; 7.38, 22.4, 153 PO2, bicarb 13.4, saturations 99. PT 54.1, PTT 27.9, hemoglobin 13.3, hematocrit 39, white count 22.8. Platelets 289,000. Sodium 147, potassium 3.3, chloride 109, CO2 14.7, BUN 13, creatinine 0.8. AST 179, ALT 120, glucose 177, amylase 20.

IMPRESSION:

Motor vehicle accident. Closed head injury with questionable basal skull fracture as well as minor skull fractures with small amount of punctate bleeding

lesions; nothing specific. Scalp hematoma. Rule out cardiac contusion. Right ankle fracture.

PLAN:

abdomen. Head CT has been done as mentioned above. Patient is intubated and hyperventilated. NPO. Repeat EKG q8h. Bacitracin to abrasions. Recheck hemoglobin/hematocrit q4h x 3. Maintenance fluids. Patient was seen by Crthopedics who will be following the ankle fracture. Patient was discussed with ...

DATE ADMITTED: DATE DISCHARGED: ATTENDING PHYSICIAN: ATTENDING RESIDENT:

ADMITTING DIAGNOSIS(ES):

Multiple trauma.

Right medial malleolar

fracture.

Closed head injury. Left pneumothorax. Pulmonary contusion.

DISCHARGE DIAGNOSIS(ES):

Multiple trauma.

Right medial malleolar

fracture.

Closed head injury. Left pneumothorax. Pulmonary contusion.

SURGICAL PROCEDURES:

Open reduction and internal

fixation of right medial malleolus.

DISCHARGE INSTRUCTIONS:

The patient was given copy of home going instructions as well as follow-up appointment with

in the office in approximately one week.

DISCHARGE MEDICATIONS:

None.

BRIEF HISTORY AND PHYSICAL: Krista is an 11-year-old white female who was involved in a motor vehicle accident on The patient was unrestrained. The patient did obtain a closed head injury.

PHYSICAL EXAMINATION: Vital signs were stable. patient was intubated and on a ventilator. There was an abrasion to the left side of the face as well as a large hematoma over the left face and scalp. Eyes - pupils initially were deviated to the right with poor parallelization. The pupils were reactive to 4 mm. Nose was with patent airways bilaterally. Ears - tympanic membranes were unable to be visualized due to wax, but no blood was coming from the ears. Neck - trachea was midline. Heart - regular rate and rhythm. Lungs - clear to auscultation. Extremities - slight left arm contusion and right ankle fracture. A copy of the patient's history and physical is available in the chart.

DISCHARGE SUMMARY

HOSPITAL COURSE:

The patient was admitted on

the with consulting. The had to rule out a basilar skull fracture. was ruling out a blunt abdomen injury. Cervical spine was cleared by the and the ment was consulted on and the patient had a right displaced medial malleolar fracture. We would recommend pinning at this time when lumbar spine, abdomen and skull have been cleared.

On the patient was placed in a short leg cast at the time of admission by the Toes were pink and she will need surgery on that ankle when cleared by and

On the patient was awake and able to follow commands. Toes were pink and warm and will take to surgery when medically cleared.

On the patient was more alert and was transferred to the floor at this time. She will be taken to operating room on

On the patient was awake and alert, no new changed noted and will schedule for surgery on

On no other changes. Ordered MRI of the brain in the a.m.

On the patient was awake and with no complaints with casting. Ordered today and surgery in the a.m.

On the patient was taken to surgery and to recover until stable and then to

There is a full copy of the surgical report available in the chart.

On the patient was alert and awake with no pain with ankle. Toes were warm and pain. She was discharged to home in stable condition and instructions given.

PATIENT NAME:

MR#:

DATE OF CONSULTATION: REQUESTING PHYSICIAN: CONSULTING PHYSICIAN:

who was the unrestrained occupant of the back seat of a motor vehicle involved in a high speed head on collision. She was found in the back seat of the car reportedly groaning. She was extricated and transported by squad to

On arrival here, she had a large emesis and a generalized tonic/clonic seizure simultaneously. She was pharmacologically paralyzed, intubated, and neurosurgical consultation was requested.

PHYSICAL EXAMINATION:

for age female who is paralyzed and intubated and hemodynamically stable. There are bilateral raccoon eyes, left side greater than right. There are left-sided forehead superficial lacerations and abrasions. There is a step off in the bone in the high left frontal area. The pupils are 3 mm and briskly reactive. The remainder of the neurological examination cannot done secondary to the neuromuscular blockade.

The patient will undergo head CT scan and the paralytics will be allowed to wear off so we can examine her. I suspect that there is a high probability that we will find intracranial pathology associated with skull fracture that may require surgical intervention. Further recommendations will be forthcoming. In the interim, at this point in time, we would recommend maintaining moderate hyperventilation with pCO2 of about 30, fluids at maintenance rate, and again, we will have further recommendations after the CT scan has been completed.

As the patient's neuromuscular blockade has worn off, she has begun spontaneously moving all extremities appropriately. She does not open her eyes, however. She is tonguing at her ET tube and her OG tube. She is reaching up and grabbing at her tubes with both hands. She responds with localization and purposeful movements to noxious stimuli in all extremities. Her tone is normal and reflexes appear grossly normal.

We are still awaiting the head CT scan to determine whether or not surgery will be required for the frontal skull fracture.

PATIENT NAME:

MR#:

DATE OF CONSULTATION: REQUESTING PHYSICIAN:

CONSULTING PHYSICIAN: CONSULTING RESIDENT:

CHIEF COMPLAINT:

HISTORY:

head-on motor vehicle accident this evening. Details of the accident are unknown although her sister was involved with near fatal injuries with closed head injury. She was brought in per squad as well.

was consulted as deformity of the right ankle with swelling showed a minimally 1 mm displaced medial malleolus fracture on the right with probable

fracture of the lateral malleolus.

When I examined her she was PHYSICAL EXAMINATION: paralyzed and intubated. Upper extremities did not appear to have any gross deformities although she did have some excoriations on her upper extremities. These are not deep and they do not appear to be oozing any blood. Pelvis is stable on pelvic rock. Hips had full range of motion passively. Thighs were not deformed and I placed her lower extremities through passive range of motion and did not see any other gross deformities. She had swelling over the medial and lateral malleolus of the right ankle. She had an excoriation over her anterior ankle area of the left ankle but there is no swelling over the malleoli and no deformity. Distal pulses are 2+. She was paralyzed and intubated. did start to wake her up when I was placing her in a short-leg cast. She did show response to pain and movement in all extremities spontaneously but nothing cooperative. Spine has not been evaluated yet. She is getting emergent CT scan of her head as she was having seizures on presentation to the ER. She is immobilized in a C-collar and on a back board as well to take precautions since her spine has not been cleared She will need spine x-rays this evening. Neurosurgery will be planning future therapy and treatment for her closed head injury. was placed in a short-leg cast which was split anteriorly for right medial malleolar fractures. This was discussed with

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CONSULTATION REPORT

MVA PCXR

KH

PORTABLE CHEST X-RAY:

Endotracheal tube tip is in the mid to lower thoracic trachea. Enteric tube courses through the stomach with its tip not included on the film, to the right of midline. Hazy right perihilar density extends into the right upper lobe with additional left perihilar density. Faint right lower lobe hazy density is also seen, all of which may represent pulmonary contusions. No pleural fluid is noted. No fracture is identified. Heart size is within normal limits. Left superior mediastinal border is prominent. Nasogastric tube is not displaced in the esophagus.

IMPRESSION: SMALL BILATERAL AREAS OF PULMONARY CONTUSION. PROMINENT LEFT SUPERIOR MEDIASTINUM. PA AND LATERAL CHEST X-RAY ARE INITIALLY SUGGESTED FOR FURTHER EVALUATION.

The following information is a part of the patient's medical record and should be maintained in a confidential manner consistent with medical record policies.

MVA PCXR

KH

PORTABLE CHEST X-RAY:

Comparison is made to the film from earlier this day. Endotracheal tube tip is in the mid thoracic trachea. Enteric tube courses through the stomach to the right of midline with its tip not included on the film. Patchy bilateral areas of hazy density suggestive of contusions are most evident in the right upper lobe and left mid lung with lesser right lower lobe disease. Additional left perihilar consolidation is noted without interval change. Heart size is normal. Left superior mediastinal border is flat but appears less prominent than on the prior study with larger lung volumes. No pneumothorax and no pleural fluid are seen. Nasogastric tube is not displaced in the esophagus.

IMPRESSION: IMPROVED INSPIRATORY LEVEL WITHOUT INTERVAL CHANGE IN FAINT BILATERAL AREAS OF CONTUSION.

MULTIPLE TRAUMA
AM PORT CXR TUBE PLACEMENT

KH

PORTABLE CHEST:

Comparison is made to the film from one day earlier. Enteric tube courses through the stomach to the right of midline with its tip not included on the film. No displacement of the esophagus is noted. Heart size is normal. Mild prominence of the left superior mediastinal border is again noted with interval improvement due to improved lung volumes. Faint patchy areas of disease suggestive of contusions have improved in the left mid lung and right upper lobe with small amounts of persistent left perihilar and right lower lobe disease.

IMPRESSION: SLIGHT IMPROVEMENT IN BILATERAL FAINT AREAS OF CONTUSION FOLLOWING EXTUBATION. QUESTIONED PROMINENCE OF LEFT SUPERIOR MEDIASTINUM LIKELY REFLECTS LOW INSPIRATORY LEVEL ON PRIOR STUDIES, BUT PA AND LATERAL CHEST X-RAY ARE SUGGESTED.

CXR FOR FOLLOW UP PORTABLE NOW PLEASE

KH

PORTABLE CHEST:

Comparison is made to a film from earlier this day. Nasogastric tube is no longer seen. Patchy areas of lung density compatible with contusion have improved in the right upper lobe, right lower lobe, and left mid lung. A small amount of lateral pleural thickening or pleural fluid is seen in the upper lungs bilaterally. Heart size is within the upper limits of normal. Left superior mediastinum remains prominent.

IMPRESSION: GRADUALLY IMPROVING FAINT BILATERAL DENSITIES SUGGESTIVE OF SMALL AMOUNT OF SYMMETRIC PLEURAL THICKENING OR PLEURAL FLUID.

CHEST 1 VIEW ONLY (AP/PA)

CXR FOLLOW UP PORTABLE AM

KH

PORTABLE CHEST:

Comparison is made to a film from one day earlier. A large amount of new hazy density has developed in the right lung base with new obscuration of the right hemidiaphragm. Right pleural fluid is seen tracking laterally to a slight extent. Inspiratory level is low. Left perihilar density has developed, suggestive of atelectasis. No left pleural effusion is detected. Heart size is within the upper limits of normal. Superior left heart border remains prominent.

IMPRESSION: MODERATE RIGHT PLEURAL EFFUSION. LEFT PERIHILAR
ATELECTASIS. TO EVALUATE FULLNESS OF THE SUPERIOR LEFT HEART BORDER, A PA
AND LATERAL CHEST X-RAY ARE SUGGESTED, AS DISCUSSED WITH DR. ANAIN ONE DAY
EARLIER.

MULTIPLE TRAUMA THORACIC SPINE

KH

THORACIC SPINE AP AND LATERAL:

Vertebral alignment is normal. No fracture or dislocation are identified. Disc spaces are well maintained.

IMPRESSION: NORMAL STUDY.

LUMBOSACRAL SPINE AP AND LATERAL:

Vertebral alignment is normal. No fracture is identified. Disc spaces are well maintained.

IMPRESSION: NORMAL STUDY.

CHEST 1 VIEW ONLY (AP/PA)

PORTABLE CXR TO BE DONE FOR F/U PT STATUS

KH

AP PORTABLE CHEST:

Persistent opacity in lung bases appear slightly improved on the right from previous examination and right diaphragm is now clearly identified. No new disease is seen. Good size cardiopericardial silhouette is slightly improved from previous examination. No pneumothorax or pneumomediastinum is seen.

IMPRESSION: FINDINGS ARE CONSISTENT WITH BILATERAL BASILAR CONTUSIONS WITH IMPROVED AERATION OF RIGHT LUNG BASE.

ANKLE AP/LAT OR PORT

AP AND LAT RT ANKLE FOR PINNING

KH

AP AND LATERAL PORTABLE VIEWS OF THE RIGHT ANKLE:

Two fixing pins are now seen across the medial malleolar fracture. Fracture fragments appear to be anatomically positioned.

IMPRESSION: REDUCING PINS IN FRACTURE OF THE DISTAL RIGHT TIBIA.

PORTABLE FLURO-1ST HOUR

C-ARM RT ANKLE FOR ANKLE PINNING FLUORO TIME: 16 SECONDS

KH

PORTABLE FLUOROSCOPY:

Sixteen seconds of fluoroscopy time was used in right ankle pinning. No spot views were obtained.

| NAME OF PATIENT | | AGE | REFERRED BY | | DATE OF EXAM |
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| | | 11 | | | |
| S.S.# | D.O.B. | | | HOSPITAL NAME | |
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CLINICAL HISTORY

MRI OF THE BRAIN

Clinical History: 10 year old female involved in motor vehicle accident with frontal fractures. The patient has had some confusion and this study is performed to evaluate for frontal lobe injury.

Technical: No sedation or IV contrast was administered. The following sequences were obtained:

- SAGITTAL SE, TR 400, TE 15, SL 5MM.
- AXIAL TSE, TR 3500, TE 19/93, SL 6MM.
- 3. AXIAL SE, TR 825, TE 22, SL 6MM.
- 4. CORONAL TSE, TR 3500, TE 19/93, SL 6MM.

Findings: Unfortunately the patient's orthodontic work causes considerable metallic artifact and distortion of the magnetic field in the region of the patient's frontal lobes. The magnetic artifact is minimized with TSE imaging. There are areas of high signal intensity in the inferior frontal lobes bilaterally. These probably represent areas of brain contusion but this is not definite since this is an area of distortion of the magnetic field. There are a focal areas of high signal intensity also in the posterior left temporal lobe and left frontal lobe near the insular cortex consistent with small area of contusion. The ventricles are normal in size and configuration. The pattern of myelination is otherwise appropriate. No mass effect on the brain is appreciated.

IMPRESSION:

THERE ARE AREAS OF ABNORMAL SIGNAL INTENSITY IN THE FRONTAL LOBES BILATERALLY. THESE PROBABLY REPRESENT AREAS OF CONTUSION BUT UNFORTUNATELY THERE IS CONSIDERABLE METALLIC ARTIFACT FROM THE PATIENT'S ORTHODONTIC WORK WHICH ALSO PROJECTS INTO THE FRONTAL LOBES. THERE ARE EVIDENCE OF SMALL CONTUSIONS IN THE POSTERIOR LEFT TEMPORAL LOBE AND AT THE LEFT FRONTAL LOBE.

PATIENT NAME:

MR#:

PROCEDURE DONE IN:

DATE OF PROCEDURE:

ATTENDING SURGEON:

RESIDENT SURGEON:

ANESTHESIA:

2% local Lidocaine

PREPROCEDURE DIAGNOSIS:

IV access and need for CVP monitoring and left

pneumothorax.

POSTPROCEDURE DIAGNOSIS:

Same.

PROCEDURE:

Triple lumen catheter placement and left chest tube placement.

COMPLICATIONS:

From central line placement of

left pneumothorax.

PROCEDURE:

draped in standard fashion using 2% Lidocaine. Using a #20 gauge needle, the left subclavian vein was cannulated in a single pass. There was good blood return. A guide wire was placed to the needle and the needle withdrawn. The catheter was placed over the guide wire in the subclavian vein. There was good blood return from all three ports and all three ports flushed easily. The line was secured in place with silk suture. Post-procedure chest x-ray revealed a left pneumothorax. A #20 French chest tube was placed between the 8th and 7th intercostal space. This was placed without difficulty. Chest x-ray confirmed good placement of the chest tube.

PATIENT NAME:

MR#:

DATE OF SURGERY:

ATTENDING SURGEON:

ATTENDING RESIDENT SURGEON:

ANESTHESIA:

General endotracheal.

PREOPERATIVE DIAGNOSIS:

Displaced right medial malleolus fracture.

POSTOPERATIVE DIAGNOSIS:

Displaced right medial malleolus fracture.

OPERATION:

Open reduction and percutaneous pinning with one 0.062 and one 0.045 K wire.

ESTIMATED BLOOD LOSS:

TOURNIQUET SETTING:

275

INDICATIONS:

who was involved in a motor vehicle accident one week and a day ago sustaining the above named injury. She was placed in a short leg cast due to her closed head injury in which she had bifrontal contusions and small contusions scattered in her left hemisphere.

The patient was taken to the PROCEDURE: operating room and after satisfactory general anesthesia was induced, she was placed in the supine position. A tourniquet was placed on the right thigh. Her right lower extremity was prepped and draped in a sterile manner. A C-arm was used throughout the case. An attempt was made at closed reduction, but the fracture was displaced and did not reduce. After exsanguinating the limb with Esmarch exsanguination, the tourniquet was inflated to 275 mm of mercury. A skin incision was made over the medial malleolus and care was taken to protect the saphenous Sharp dissection was carried down to the fracture fragment. periosteum was elevated off the proximal portion of the medial malleolus to expose the entire fracture. The periosteum was elevated off the distal fragment as well and the soft tissue attachments were maintained. Hematoma was removed and irrigated out. The talus was inspected and did not appear to have any osteochondral lesions. Following further irrigation, a tenaculum was used to reduce the medial malleolus and hold this while two K wires were inserted. These were checked with C-arm guidance and anatomic reduction was obtained. wound was irrigated thoroughly. Plain x-rays were taken which showed anatomic reduction of the fracture fragment. The periosteum was closed

PATIENT NAME: MR#:

with 0 Vicryl suture. The subcutaneous tissues were closed with 2-0 interrupted Vicryl and then running 3-0 Vicryl subcuticular. Steri-Strips were then applied. The pins were cut off and bent on the outside of the skin and protected with pin covers and felt. A sterile bandage and Webril was then placed followed by a stockinette, Webril, and a short leg fiberglass cast.

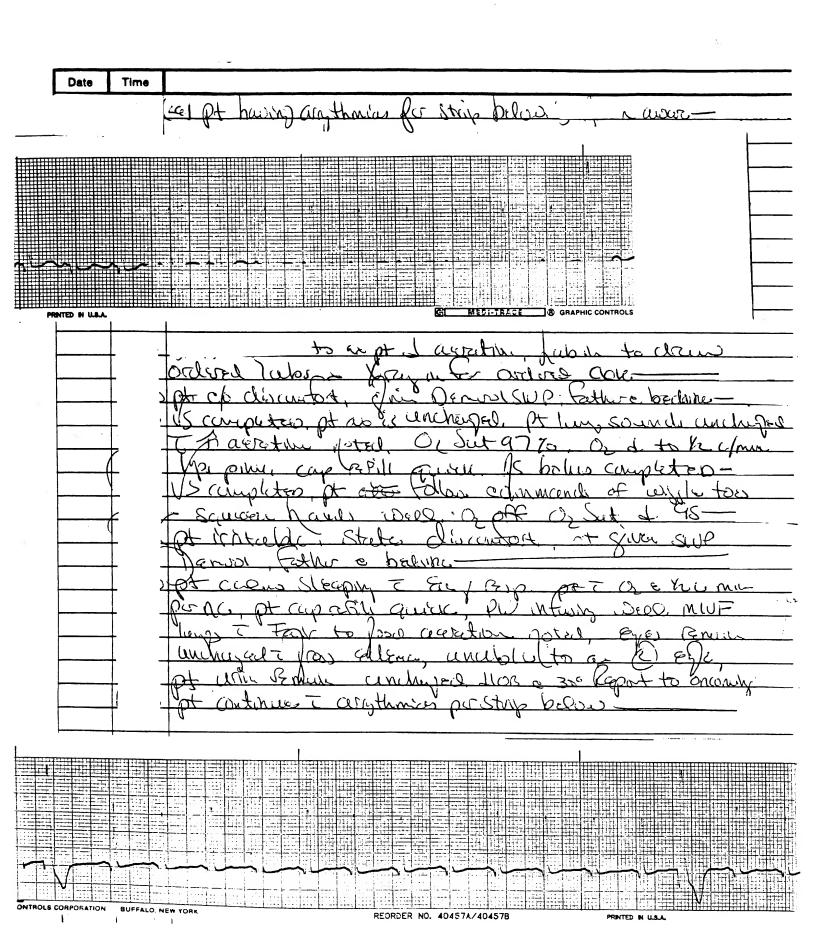
The patient tolerated the procedure well. Prior to placing the cast on, 0.25% Marcaine anesthesia was injected into the skin for postoperative pain control.

Dictated by:

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| thrashing in hel Called to room. Plans to extribute pt. in room. Yydate given | | + | Tyunot, from USOO) Rettless. brees to them to |
| pt. in room. Hydate given. | | | Horalia is had a supposed in the property of the same |
| - The second square of them. | | - | My 10000) Wedt Miller - |
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| Date | Time | |
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| | · | OG tube virigated & 2000 Sterile Hro. Lg. amt. thick |
| | | brown fluid, lg. food particles. (0630) exterted to lan ail p suctioning Ett. Tolerated extertain The proplem. Strong willform cough. Both eyes swallen shut. Thous purposefully to stimuli. |
| | | to Pm ail & suctioning Ett. Tolerated extertalin |
| | | The proplem. Strong withform cough. Both |
| | | eyes swallen shut. Thous purposifully to stimuli. |
| | | Of trave removed per Pate extry 0645). |
| | | 25 mg Demerol quen for pain. (0730) Calm, quiet. |
| | | Dud to bedside. 75 = 20 meg Kelf L infusion |
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Time Date Cepiet Pregivery ing a San/san James tos Edena, ot squeezes Feer appear symmetri En en en Strong knist - Phenegan as orthogo ing Elles Tech he to do arrival Ethorailion a Life park monter. Colourantal to I mitnetibres, plain Ation Sup It Ct completed, pt to xray for delived film pt trun pulses to Pile pluset to 249 - ar conjutacely pt has a bs to buse od phuse to 12/min or pur al



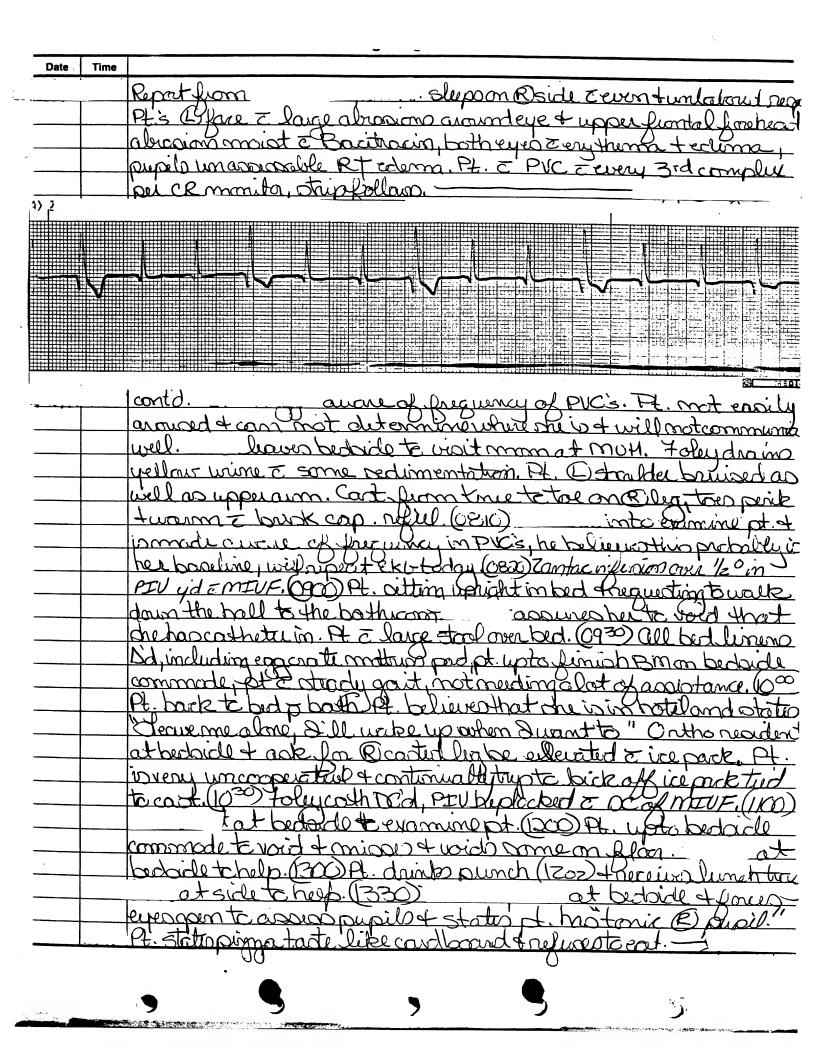
| Date | Time | |
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| 1 | (art | 2040) Sats vernain 89% FOR 14/2l. A wakes to touch |
| | | 1600 Lave me avare: 300 194-9 10, 1402 3 X L UZ |
| | | In ant blooky mucus noted in filey, while remains |
| | , | Claryellas. It bitting (& KN, (Whard restrained |
| | | Kesting well of remard nasal cannula sat 95% or RA |
| | } ≥ | Cart to sleep at strong nee kiep neg lagy. |
| | - | awaterrestless brien 25mg Barnerol SIM for pain Kick |
| | | sless. KN attempts to clean face apply Bacitracin o |
| | t - | Of To men 650me then OR Rests well. |
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Date Time pr Strip to approce

| Date | Time | |
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| | | legant variosed. Child (ving in adult bed = HOB TS. Herlack to |
| | | Whand 3 reddies PIV to BAC & DE/211 EZOKIL infusing |
| | | 5 reddress or swelling Bruing to (aum. A brasien to |
| | | Osido Jaco Eyes & periorbita edema. Unable to |
| | | assess pupils do to this last to mid-calf on @ leg. |
| | <u> </u> | Foley to gravity divening yellow were A Brasien to |
| | | Dower leg. Visitors at bedsets. Awakers. Talking |
| | | S Go of all in a series and time. |
| | | Moving in head. Moves aims and leas well. |
| | † | at bedsied etamining eyes. PTable to |
| |] | head & (12) eye when eve held open. Able to see out of |
| | | Days but blumy Alway given for agitation prior |
| | | to procedene. |
| | - | Sodpera, |
| | | Postlos Veneral given. (C) heplock leaking fluid Pulled |
| | | Shand reports. Aware. Illing ricking also. |
| | 1 | Sleeping - Sleeping Tuleral given on lever Bacitracia to (1) ride duce |
| | † | aharins |
| | | Resting at pedial. |
| | \rfloor | Awakened briefly. Asho to get up and go to the bathroom. |
| | _ | Consoled by lather |
| | + | Report to |
| | + | Report received. In open bed = HOB 7 30°, Eyes edenatores & ecchymotic |
| | + | abrasions noted wable to open eyes to assess supiles. Cast to O'l lightly |
| | + | Juntant good circ. cks. to tow Ger. PIV to Cartecutital & Do. 45NS = some kcl/L @ 70cc/A. Joley in place & patent. Oriental to name + age |
| | + | unappropriate to place. |
| | † | Occasi. Pre noted per monitor. |
| | | Continues to have PVC's, browses lasely to voice priested to name + ago, |
| | 1 | inappropriate response to place ever & telling pt. Cisking to one free unable |
| | 4 | to open eyes hovever. |
| | + | Ketured to sleep , quiet. |
| | + | Mos in solus. arodos to your stimule, " eted to name '+ age' not to place" |
| | | Return to due quickly i quiet. |

| Date | Time | ľ |
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| | • | Pl. alupo z even + unla land resp. (500) Multiple |
| † | | pot bedoich of chips. |
| | - - | subject. Pt anomorphish & BA |
| | - | X3. Pt. dehippoin, thirst or humes. Pt. continue thave P |
| | _ | bruchen ets mic (1700) Pt upte bedoide te commode |
| | | au assistance + wirt donk yellow youno. (1730 |
| | _ | Pt. reiver dimmerting at berbide to assist omeral. |
| | <u>,</u> | PIV in Bantea lital Debuthama during zantacinkusian, site 3 |
| | ļ | Bodretum Adres not bluch eagy. Pt V TCd, premineapol |
| | ļ · - | at site for over 5 mins due to Don't dotting (1800) |
| | - | motified Phosof I Vacus and D'Sall IV mode Pt. eato 50% |
| | - | chillen mode vary & drimbs punch. (1900) A. a Report to |
| | † ; | 0.1-1/227208 |
| | 1 = | Report received In open bed & HOB 130°. Eyes remain edimatous + |
| | | V3 cooperative. Cost vitner @ bower leg & dry, due. V's to tow good. |
| | | tacial abresions noted @ fair no drainage roted. T.V on for comfort. |
| | | è bedoide q'interfracting well à set. |
| | | up to B.S. commode. Bed I liner solurated &? Void 100cc/commode. |
| | ļ., | Cooperative. Driving Lot chocolite à belative assist. |
| | ļ : | Deeping quietly. Early aroused printed +3. |
| | | Continues to selep quiety. arouses easily, oriented +3. |
| | - | Olegoing quetty. Easily aroused + overted + 3. No 40 pair. Cost intact & |
| | † ; | Ules & sold cite. Clotho toul of. |
| | † - + * | De 201 avis a cure, liven a. |
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| | | both eyes a. Both eyes a edema, black, purple, Eyellowing |
| | | to skin. Upens eyes to KN & voice. Mode yes to questions. |
| | | to bedoide: State pt is starting to talk. Bacthacen to abrasione @ side of still. Lungs clear bilaterally abdomen |
| | | abrasione @ side of skill. Lungs clear bilaterally. abdomen |
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| | | breakfast ate all ir toast all banana all grave rice 1/2 milk. |
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un c good cop. ufill, pt wiggles freely. Denies discontrol Globa.
As, up to BR to void S beauty whom @

| TIME | |
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| | able to Day full have, address - but forgets phone number |
| , | - belateral hand grasps = , in to supt |
| | Sungo CTA, (+ Bowel sounds & H.L. Denus C/o |
| | pain both eines deep purplish brused à chilowing very |
| | edematous but able to open suchter. att most of |
| | 2 Charament unchanged - pt caying ciall light |
| | unier hand - states she has to use buthroom. ask why she |
| | didn't use call light - shrugged shoulders Dad she |
| | gracking on Crême Juda & Cheese & crackers |
| | pracking on Crime Juda & Cheise & crackers |
| | Went to Visit at Rospital remains at |
| | Went to Visit at Kospital. remains at |
| | hedride assisted to BR x3 - No myself 7 |
| | necessary to hold (R) lie land at the 20 St NWB |
| | peip wing Rt lig to ambulate - (Ite 50% dinner) |
| | had later Cheese & crackers clarlier |
| | reminat bedside - pt denies Clopain. Riport |
| | Quen to oncoming. |
| | Dr. surke alert, able to say full name and address but |
| | does not crecace phone number. Pupils dem. PERRIA. |
| | Denier any disconfort. Both eyer bruises purplish in color, |
| | hand. Eating ice cream at bedade. Doisnow |
| | disher Lalkin lasin & W. Anguras Buchons |
| | commaiely. Speech clear. KelAfrhin T.V. |
| : | districts. Salking lasing & Int. Answers Greenons expropriately. Speech clear. Watching T.V. IN ASSESSMENT. DERICH Needs. Resting. Wexies needs. In NIDO. Remains alert & or rentreo, answers green trong expropriately. Sleeping in bep. CASt on Olic in that CAPTER! I Lase. Joes warns to touch. Wakened. Confittee Org Denies any needs. No S'S In assessment. |
| | In NIDO Remains alert & or rentreo, anowers green trons |
| | armonialely. Sleeping in DED. CAST on Clea in Mct |
| | CAP Lefill & Sec. Does warne to touch. (Iwakened Contract |
| | by. Denies any needs. No 1's in assessment. |
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TIME from faceal abration? Uplearly some por C/o cramps on rednem noted - no preme Thatung bus i soles that on toe is still hunting as Rt Hugh BP 120/640 Will " worsel understanding notified of do sain lyou - outto tech page by ev split and spread of can Erista spoke i gather on the phone and colme / down to school classroom per in to see pla spole i wents rable to jocograme them the am but could the afternoon No fuller Clopar In bed CES watching TV. no Clo pain at vicele tolos afficulty talkative + pleasant It duake, bed bathdone. Peop'equal, nonlabored, CTA bolat. Old 8Ht, Plat, & B. Short leg cast Entact to @ lower log, and V's stable to toes of @ foot 6<5 sec. cap refire). Both eges bruised above & below up sochet. Laceletin noted above Dup, odiainan noted. Visitors e bedrido. Pt 5 % It co Ples pain, Island grenpo.
It awake, visitors present, back in bedatter

| TIME | 1 |
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| | and alex and oriented & Chil Lit |
| | Soutent to lawstin Day and to Mt foot- |
| | At Most WM to Med sensation, neigh down 1 |
| | mail has bolomke your |
| | tubber not bedoons. Pt. to have any |
| | Am and MNt. |
| | nous. |
| | so mmz pr cm c |
| | femas ad mnt |
| | Returned from mr. mous |
| | Restree in bed. CASt intract Oleg. Coprejil 2 2 sec. Joes warm to |
| | touch. Pt. talken leasing & W. Alert & orientes. Menapowining over |
| | Degebrow Denies any needs. Assistant to bathroom. Visitors |
| | here. here visiting. Pt. smeling, tacking |
| | elasin T Startes in Chara x 2 attempts |
| | C 24 Bruge. Pt. tol well. at bedside. Restry, no |
| | Sis. Pt. gwar of NPO Status after ridnight. UNAD. |
| | It asleep in bed. Respegual, nonlawoved, CTA briat " |
| | And soft, flat, &BS. (P) lower leg c cast intact, soes |
| | warm, dry Ever bilat c bruses noted, old lacerations |
| | noted to forekead. IV heplack wtact to Drand Pt-NPO. |
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| | Sleping. NAD |
| | aware & up to use BR. Back do bed 5 defectively - assessment |
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| | aware & up to use BR. Back do bed 5 deferring. assessment und d |
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TIME alect Lispirations unlabout to pink color levies Pain PPO per ade awake, Visiting T family Keep 20 unlapsued in (P) foot. Dedal pulses present IV (P) hands redsesse ellena ASCROT 75/hr. (R) Solotot. Denies Vision published. NPD ASC Consisted will continue to monter remochent Campleted alert scientistis (13 Claria) It ortect. I gual strength in all extremities ale sprapriate to conversation, & foot Pedene, all extenition warm & Quick cap refill & +3 pul sedal & ladid. Ambulated to chare o numeral essection enting 000 to hand IV make to flush. IN DC! 1 and IV restanted Latrenty 0645 IV restand Ph hand 246 angins weno of mxm. mobile to albert Do DR via ca BACK from Surgery. Delkinplain at 75001° per Qurist, sites 5 reduse or owelling. youdat bedards. CAST: where @ lic. CAPrefile 2 see Joes warm to touch. Wence any pain at this time. States she want disener tought. Withour nothers. Resting comfortably & complaint. States she is bored Dupils = and reactive, oriented x3, bowel sounds present x+ No c/o N/v. Cast intact on @ leg. Moves toes, motor/ sensory intact. states not hungry at this time, will try to eat later. No encus Door Internation. Drinking Fup. poince well.
No encus. Door Internation for clo disconfort
en Danne. Danier per IV 5 diff. Starting to
lat deiner. Januar members en visiting at this Time. Denne need

TIME VS. Completed. alert, occentated X3. Cooperature. Respundend 21/6. Warm skin temp, West orientated X3. Clarial newsoitreactive e equal. Leap to unlapered. regular at SO (R) leg Const edena, Ocyanisis dende pair. C/O N/Tingling as no weight b + Case adressed. (R) leg elevated on notified of numbered Stringling (R) hand IV ASCRA 5 redness or odeha, TAMS Completed Full from strength of upper ! lower extendition. will continue to month orthotest examing the legand Cast for 11/T Cast edge Cut slightly. No evaluated for AH. Patren worke, alect overtaled (3. plans to offing therein P/T an to wall less anlabour at 20. Pink slin detection to peld Rt wood 5 probles subject today after los not need to ou alky Ampletes Orlings